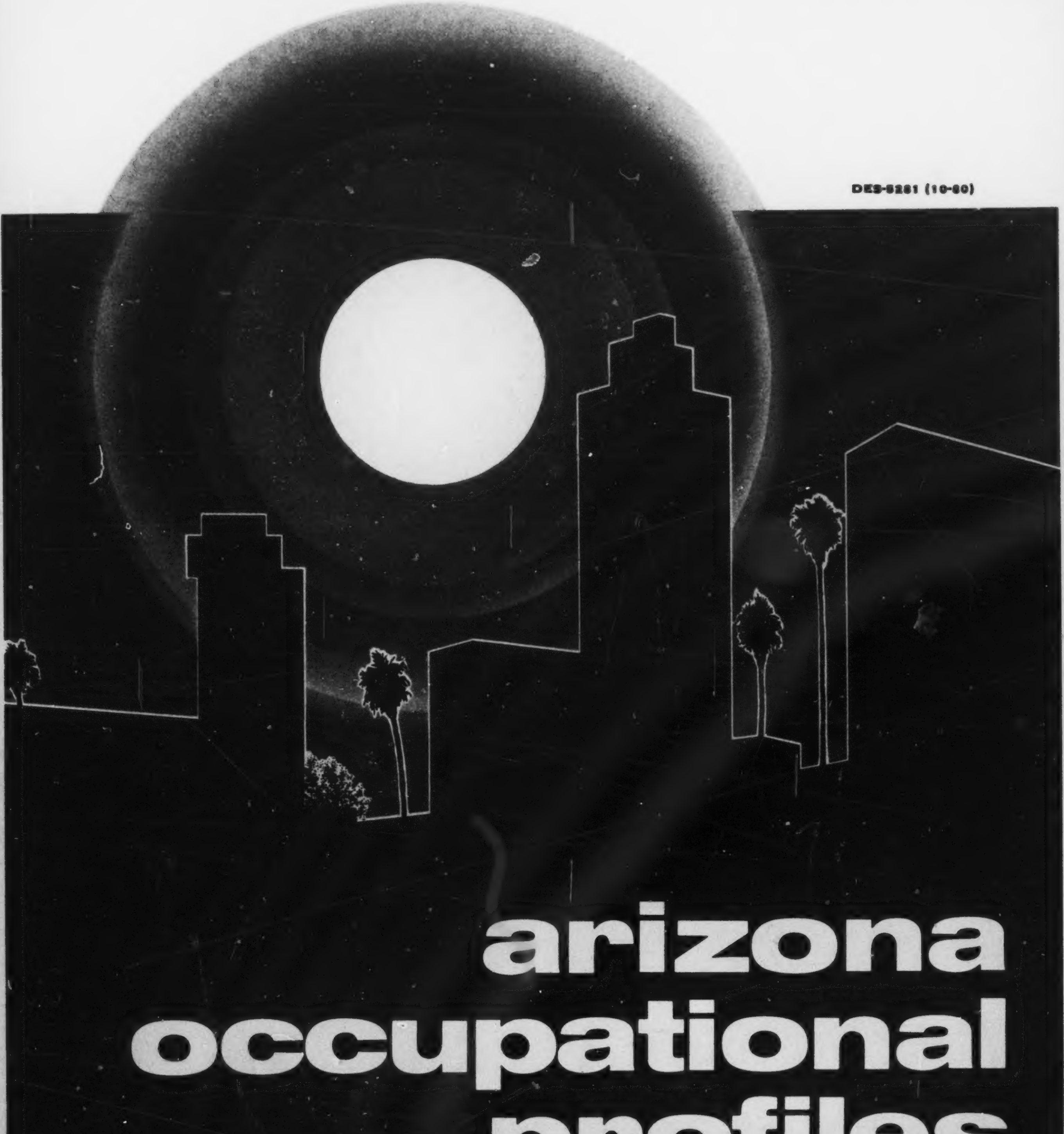
S 0465-2.5

GOVERNMENT

OCTOBER 1980

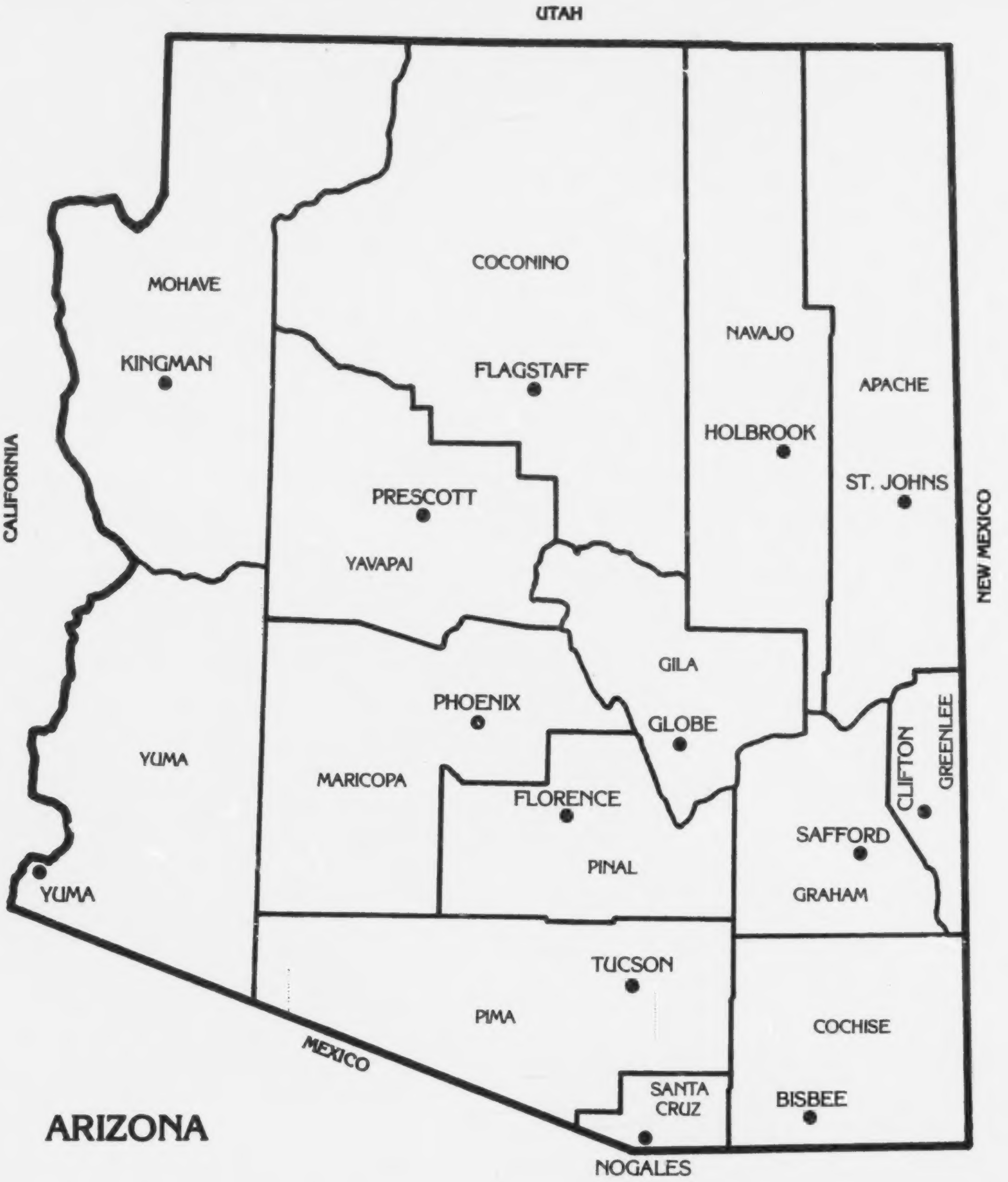


DES-5281 (10-80)

arizona occupational profiles

A Labor Market Information Publication of the Arizona Department of Economic Security

DEC 17 1980


UTAH
CALIFORNIA
NEW MEXICO
MEXICO
MOHAVE
KINGMAN
COCONINO
FLAGSTAFF
NAVAJO
HOLBROOK
APACHE
ST. JOHNS
PRESCOTT
YAVAPAI
GILA
GLOBE
PHOENIX
MARICOPA
YUMA
YUMA
FLORENCE
PINAL
CLIFTON
GREENLEE
SAFFORD
GRAHAM
TUCSON
PIMA
COCHISE
SANTA CRUZ
BISBEE
NOGALES

ARIZONA

OCCUPATIONAL PROFILES

This Occupational Profile is one in a series of publications produced from information developed by the Occupational Employment Statistics survey. The survey is used to collect employment data for over 1,100 occupations in every Arizona county. From these surveys, which require the cooperation of the Arizona business community, current employment in the various occupations is determined, and from this an occupational outlook is formulated. The Occupational Profiles contain the survey findings and examine, individually, the industries of Arizona.

Industries recently surveyed and for which profiles are now available include:

Nonmanufacturing
Mining
Finance, Insurance, and Real Estate
Construction
Services
Educational Services
Manufacturing
Government
Trade
Transportation, Communications, and Public Utilities

For further information, or to comment on any aspect of this program, please contact us at the address on the back cover.

INDUSTRY INFORMATION

INDUSTRY DESCRIPTION

Government employees are engaged in a broad range of administrative and service delivery activities requiring a variety of occupational skills. The major functional areas of government considered in this report are: executive, legislative, judicial, public safety, transportation, finance, human resources, corrections, environment, and economics. Aside from civilians working for the military, employment related to national security is not represented in this profile. Also excluded are hospital and educational facilities operated by state and local governments. Educational facilities are included in the Educational Services profile; state and local hospital facilities will be included in a Hospital profile to be published in early 1981. Employment in federally-operated hospitals and educational facilities is included. A more detailed description of the governmental units and activities included in this profile can be found in the Standard Industrial Classification (SIC) Manual under codes 91 through 97. Various specialized functions of government are described under other SIC codes found throughout the manual.

INDUSTRY CHARACTERISTICS

FEDERAL GOVERNMENT

Federal government workers provide a variety of functions which serve the population of Arizona indirectly, so the distribution of federal employees in the state does not relate proportionally to the state's population distribution or to the distribution of total Arizona employment. The majority of federal government personnel is, however, employed in Maricopa County where the State Capitol is located. Federal employment distribution and the state's population distribution are shown below.

FIGURE 1: FEDERAL GOVERNMENT
EMPLOYMENT BY DISTRICT
MAY 1979

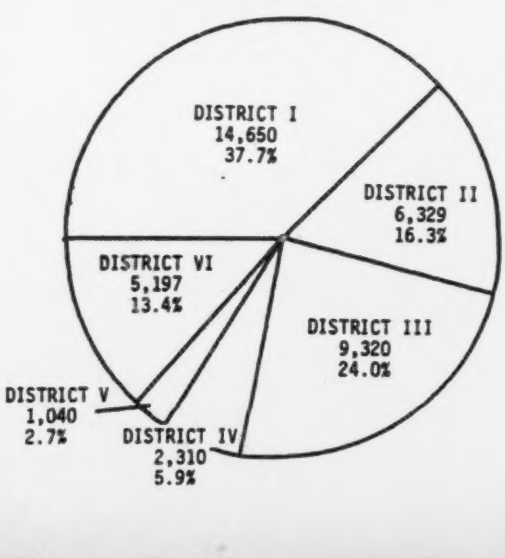
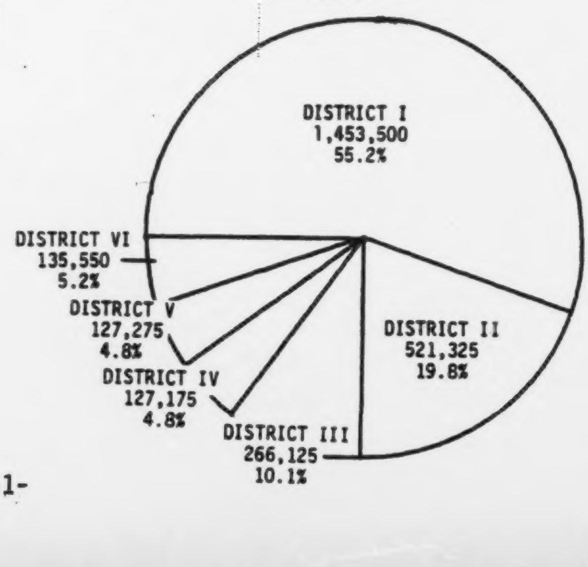


FIGURE 2: ARIZONA
POPULATION BY DISTRICT
1979



The districts in the graphs correspond with the state's counties as follows:

District I	Maricopa County (Phoenix)
District II	Pima County (Tucson)
District III	Apache, Coconino, Navajo, Yavapai counties
District IV	Mohave, Yuma counties
District V	Gila, Pinal counties
District VI	Cochise, Graham, Greenlee, Santa Cruz counties

Federal government personnel perform a variety of services, some of which have no counterpart in state or local government. The tasks performed by government in each district are reflected in the number at work in the major governmental units.

FIGURE 3: DISTRIBUTION OF FEDERAL GOVERNMENT
EMPLOYMENT IN ARIZONA
BY MAJOR FUNCTION
AND BY DISTRICT
SEPT. 1979

	District I	District II	District III	District IV	District V	District VI
Army	400	46	125	748	9	4093
Navy	3	6	12	374	0	0
Air Force	2725	2259	3	0	0	1
Dept. of Defense	247	57	0	8	0	3
Postal Service	4408	1050	357	189	167	240
Veterans Admin.	1570	1103	543	0	0	0
All Other	5297	1808	8280	991	864	860
Total	14650	6329	9320	2310	1040	5197

The exclusively federal functions of national security (civilian military employment) and the Postal Service account for about half of all federal employment in Arizona. Military employers alone, primarily the Department of the Air Force and the Department of the Army, employ almost 30 percent of the state's federal government workers. Luke Air Force Base, west of Phoenix, and Williams Air Force Base, east of Chandler, account for the majority of civilian military employees in Maricopa County. In Pima County, Davis Monthan Air Force Base, near Tucson, employs over 2,100 civilian workers. A major Department of the Army employer is Fort Huachuca in Cochise County, with about 4,000 civilian employees. About 750 of the 2,133 federal workers in Yuma County work at the Yuma Proving Grounds.

STATE GOVERNMENT

Over 22,500 workers were employed in state government in May 1979, representing approximately 20 percent of Arizona's government workers. The distribution of state government workers is unlike the distribution of population.

FIGURE 4: ARIZONA
STATE GOVERNMENT EMPLOYMENT BY DISTRICT
MAY 1979

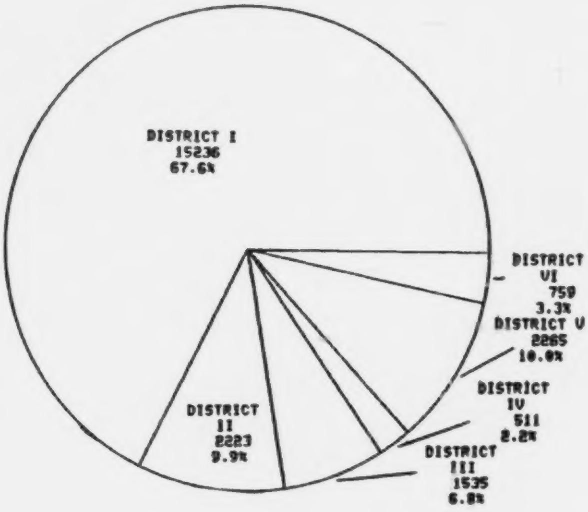
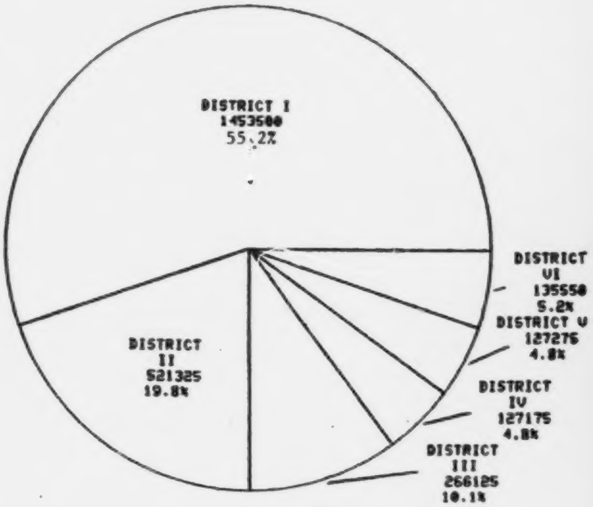


FIGURE 5: ARIZONA
POPULATION BY DISTRICT
1979



The majority of the state employees work in District I (Maricopa County), where the State Capitol is located. Most of the administrative functions of the various departments are performed in the Capitol area. The relatively large number of employees in District V is attributed to the state correctional facility located in Florence and the Division of Developmental Disabilities of the Department of Economic Security in Coolidge. The employment distribution among the districts would more closely coincide with the population concentrations of the state if state-operated universities and hospital facilities had been included in the data. Forty-two percent of the state's workers are employed by the Department of Administration. This large department includes many diverse divisions including the Data Processing Division, Division of Finance, Office of Purchasing, Personnel Division, and Weights and Measures Division. "Other Government Agencies" includes the Office of the Governor, the Legislature, advisory and interdepartmental committees, regulatory commissions, the Appellate and Supreme Courts, and the revenue collection agencies.

FIGURE 6:
STATE GOVERNMENT EMPLOYMENT IN ARIZONA BY COUNTY AND MAJOR AGENCY
MAY 1979

	Public Safety	Economic Security	Transportation	Health Services	Department of Administration	Other Government Agencies
Apache	17	36	81		91	
Cochise	21	105	94		41	
Coconino	55	93	220	9	46	9
Gila	27	49	104		21	
Graham and Greenlee	18	44	91		233	2
Maricopa	1,016	3,769	2,368	545	7,016	522
Mohave	27	41	105		47	4
Navajo	17	52	278		15	4
Pima	85	1,014	307	120	639	58
Pinal	55	968	35		1,001	5
Santa Cruz	25	24	48		13	
Yavapai	31	51	169		258	3
Yuma	39	81	112		46	9
Statewide	1,433	6,327	4,012	674	9,467	616
Percent Statewide	6.4	28.1	17.8	3.0	42.0	2.7

FIGURE 7: EMPLOYMENT IN STATE GOVERNMENT BY COUNTY
MAY 1979

County	Employment	Percent of Total 1979 Employment
APACHE	225	1.0
COCHISE	261	1.1
COCONINO	432	1.9
GILA	201	0.9
GRAHAM	336	1.5
GREENLEE	52	0.2
MARICOPA	15,236	67.6
MOHAVE	224	1.0
NAVAJO	366	1.6
PIMA	2,223	9.9
PINAL	2,064	9.2
SANTA CRUZ	110	0.5
YAVAPAI	512	2.3
YUMA	287	1.3

LOCAL GOVERNMENT

Local government personnel represented close to 38 percent of government workers in Arizona in May 1979. The distribution of the work force closely corresponds to the population distribution.

FIGURE 8: LOCAL GOVERNMENT
EMPLOYMENT BY DISTRICT
MAY 1979

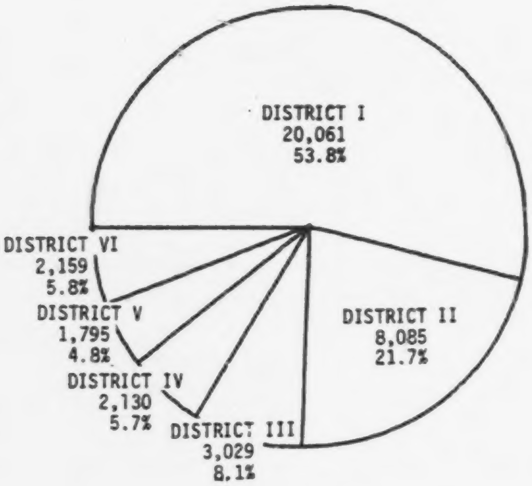
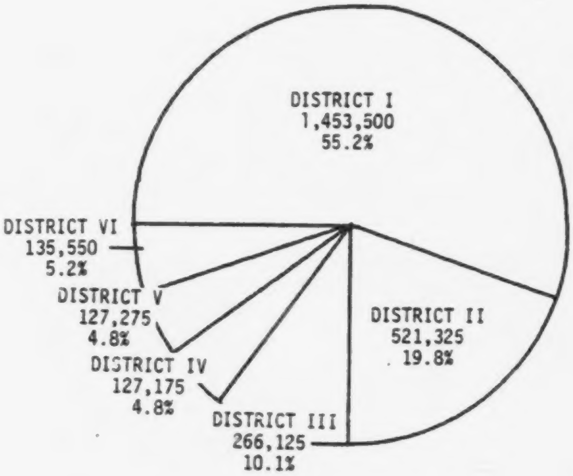


FIGURE 9: ARIZONA
POPULATION BY DISTRICT
1979



Units of local government are defined as the political subdivisions of the state, i.e., counties, cities, towns, and special districts. Local government units except for special districts, tend to be multifunctional. Functional aspects of local government included in this report are executive, legislative, justice, public safety, transportation, and general government.

Shown in Figure 10 is the number of municipal governments in Arizona by community size for 1967, 1972, and 1977. The changes through time reflect Arizona's increasing population. For example, there were no municipalities with 50,000 to 99,999 people in 1967, but there were four communities of this size in 1977. In this instance, four of Arizona's communities experienced substantial population growth.

FIGURE 10: NUMBER OF MUNICIPAL GOVERNMENTS IN ARIZONA BY POPULATION
(POPULATION IN THOUSANDS)

Population Size	Number of Municipal Governments 1967	1972	1977	1960 Population in Areas with Municipal Governments as of 1967	1970 Population in Areas with Municipal Governments as of 1972	1975 Population Estimate in Areas with Municipal Governments as of 1977
300,000 or more	1	1	1	439	582	665
200,000 to 299,999	1	1	1	213	263	296
100,000 to 199,999	0	0	0	0	0	0
50,000 to 99,999	0	3	4	0	194	334
25,000 to 49,999	1	3	2	34	91	61
10,000 to 24,999	7	4	6	118	50	96
5,000 to 9,999	8	13	14	63	88	96
2,500 to 4,999	11	11	20	43	35	64
1,000 to 2,499	23	21	18	40	37	30
Less than 1,000	10	8	4	7	6	3
Total	62	65	70	957	1,347	1,645

[1] For purposes of Census classification, a municipality is a political subdivision within which a municipal corporation has been established to provide general local government for a specific population concentration in a defined area.

[2] Population for the number of governments in 1967 is based on the 1960 census, for 1972 it is based on the 1970 census, for 1977 it is based on 1975 estimates of population.

Source: U.S. Department of Commerce, Bureau of the Census. *Census of Governments: 1967, 1972 and 1977.*

INDUSTRY TRENDS

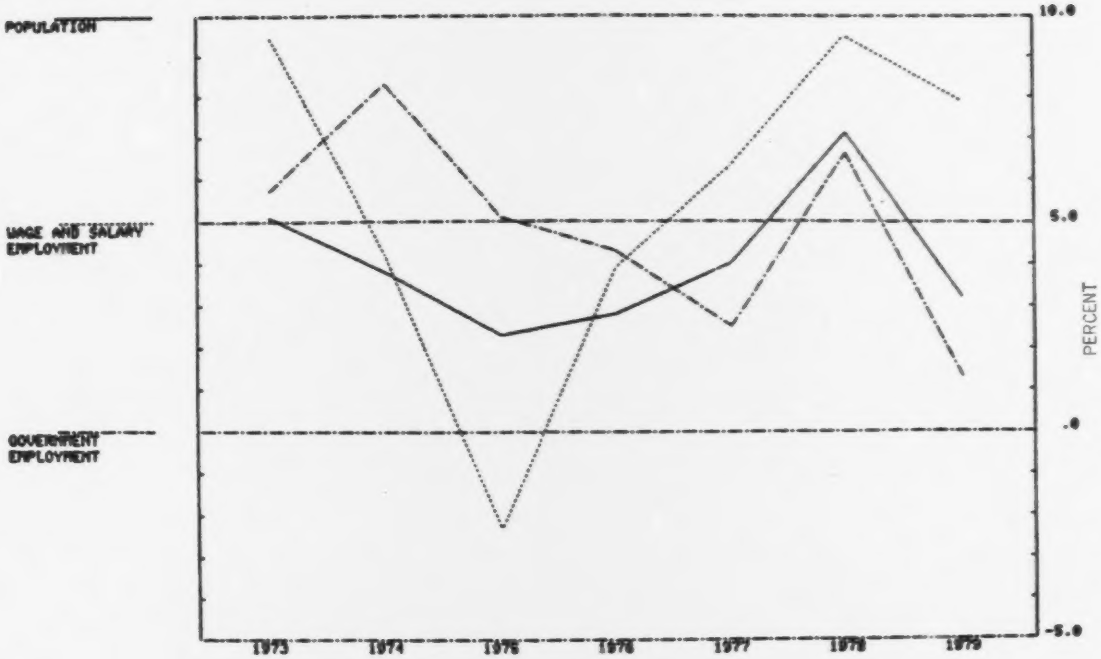
The rapidly increasing population in Arizona has resulted in continual gains in government employment, though gains have been less than the average for all industries. Annual employment averages and population estimates for the last several years are presented below.

FIGURE 11: EMPLOYMENT AND POPULATION
1972-1979

	Government Employment	Wage and Salary Employment	Population
1972	139.2	646.2	1,970.0
1973	147.6	714.4	2,075.0
1974	161.0	745.9	2,157.0
1975	169.7	729.3	2,207.0
1976	177.3	758.8	2,270.0
1977	181.9	809.4	2,365.0
1978	194.8	894.4	2,547.0
1979	197.4	970.8	2,631.0

Comparison of the annual growth rate, (that is, percentage change from year to year in government and wage-and-salary employment) spotlights the recent downtrend in government employment in the state. Since 1977, the annual growth in government personnel has been not only substantially less than the annual employment growth across all industries, but also less than the percentage growth of the state's population.

FIGURE 12: ANNUAL GROWTH IN ARIZONA POPULATION AND WAGE AND SALARY AND GOVERNMENT EMPLOYMENT 1973-1979



The trend in federal, state, and local government employment for the State of Arizona, Maricopa County, and Pima County is illustrated on the following pages.

Federal government employment has increased relatively slowly throughout the state. This slow growth conforms to the trend in the nation toward a leveling of federal government employment.

State government employment growth has been nominal. Increases in personnel have been concentrated in Maricopa County. The mood of the public toward fiscal restraint, as well as Arizona's healthy economy, are major factors in the relatively slow increase in state government employment during recent years.

Local government employment has increased considerably more than that at the state or federal level. Rapid growth and development of Arizona's cities, most notably Phoenix and Tucson, have required additional street and highway facilities, police and fire protection, and public health, sanitation, welfare and other services. Arizona's mushrooming population growth is expected to continue, creating demand for continual increases in local government workers.

FIGURE 13

FEDERAL, STATE, AND LOCAL GOVERNMENT EMPLOYMENT
STATE OF ARIZONA
1964-1979

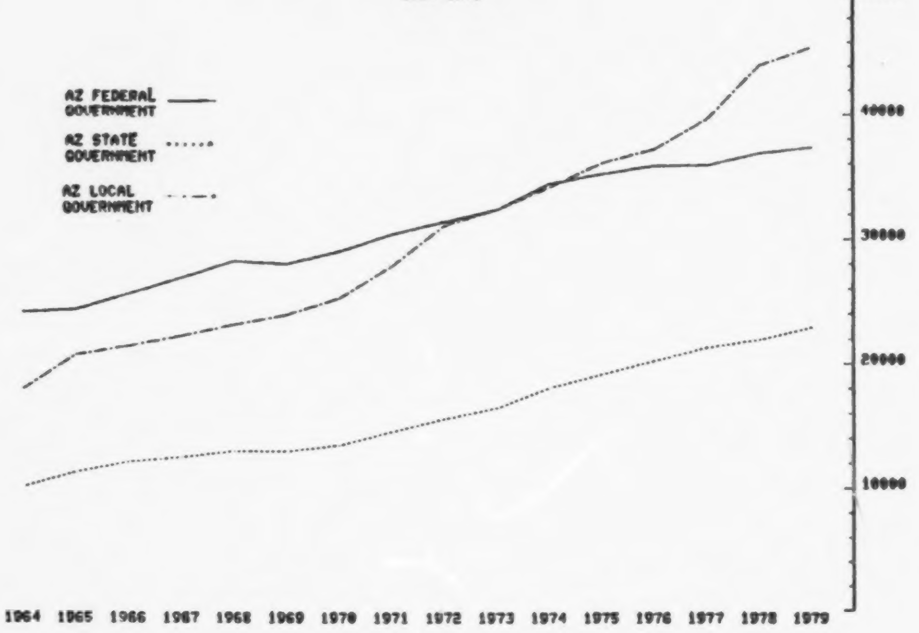


FIGURE 14

FEDERAL, STATE, AND LOCAL GOVERNMENT EMPLOYMENT
MARICOPA COUNTY
1964-1979

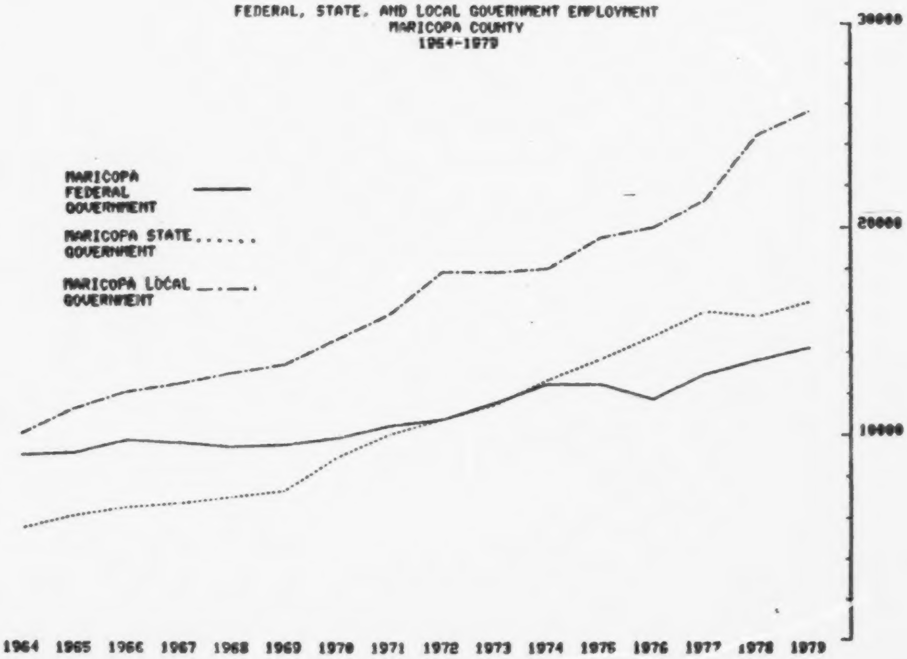
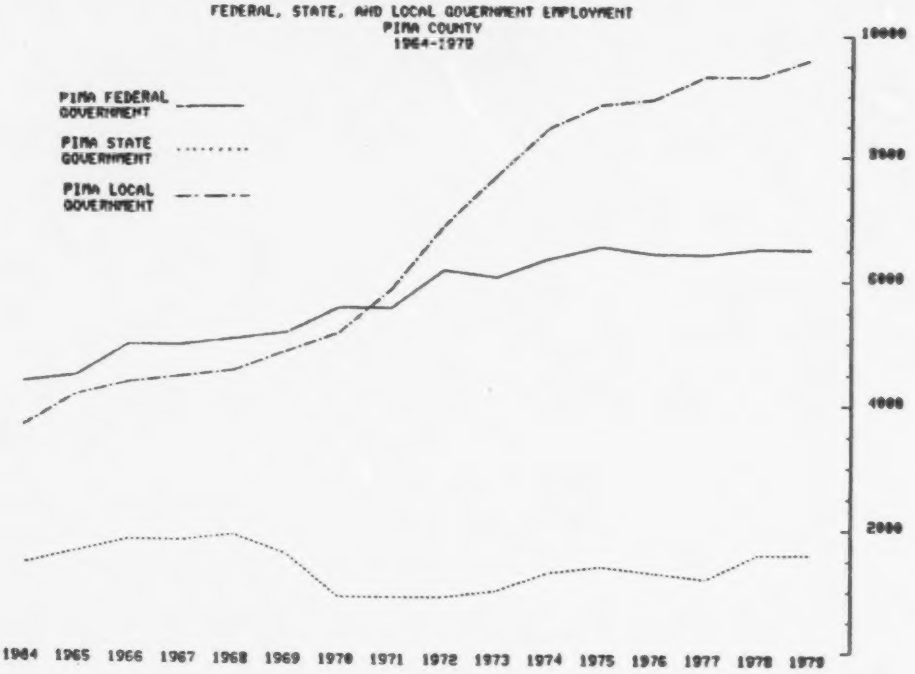


FIGURE 15



Employment increases in government through 1983 are expected to be small in comparison to employment gains in other industries. Contributing to the need for more government workers will be Arizona's continuing population growth and the demands these people will make upon communities. Also influencing the number of government personnel will be the future state of the economy. The recession, though expected to be mild in Arizona, will require additional workers to deal with the problems that ensue. For example, an increased unemployment rate would increase the need for unemployment benefits claims takers. Another influence upon the number of people employed at all levels of government will be the often discussed cuts in the federal budget. If the nation's budget is decreased as proposed, the effect upon federal government employment nationwide is expected to be small but negative. Federal budget reductions also would have an impact upon state and local government employment since some state and local governmental programs receive federal funds.

Fiscal restraint is expected to continue at the state as well as the national level. Arizona has imposed a constitutional spending limit of seven percent of total personal income. This limit and other possible tax reforms should have a controlling effect upon the number of state government employees.

In Arizona, rapid population growth and economic development are expected to offset the negative influences upon the manpower rosters. Severe economic circumstances, not now anticipated, could push government employment beyond the expected levels. Barring such unexpected conditions, the number at work in government should continue the gradual climb.

OCCUPATIONAL INFORMATION

OCCUPATIONAL ANALYSIS

The occupational distribution of federal, state, and local government workers in Arizona is displayed below. Comparison of the three graphs shows occupational distribution differences which reflect variations in functions of the levels of government.

FIGURE 16: OCCUPATIONS IN
FEDERAL GOVERNMENT
SEPT. 1979

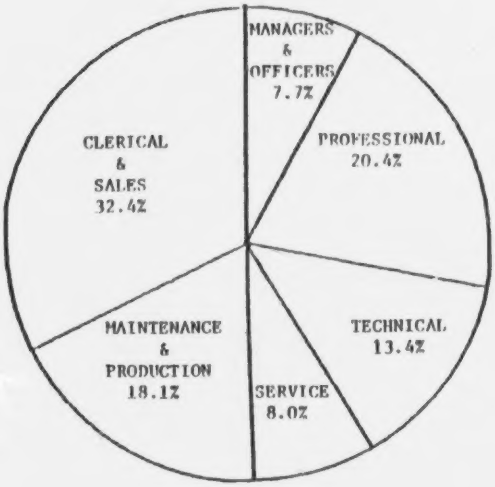


FIGURE 17: OCCUPATIONS IN
STATE GOVERNMENT
MAY 1979

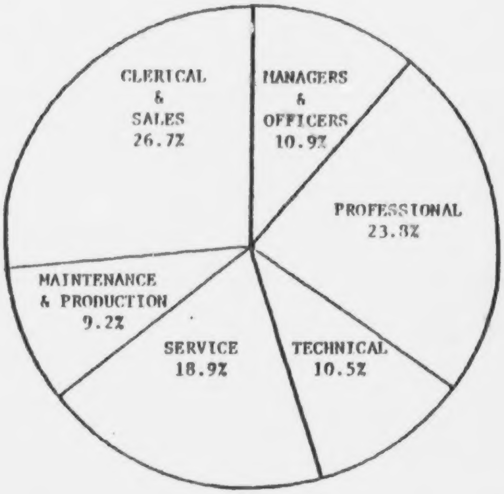


FIGURE 18: OCCUPATIONS IN
LOCAL GOVERNMENT
MAY 1979

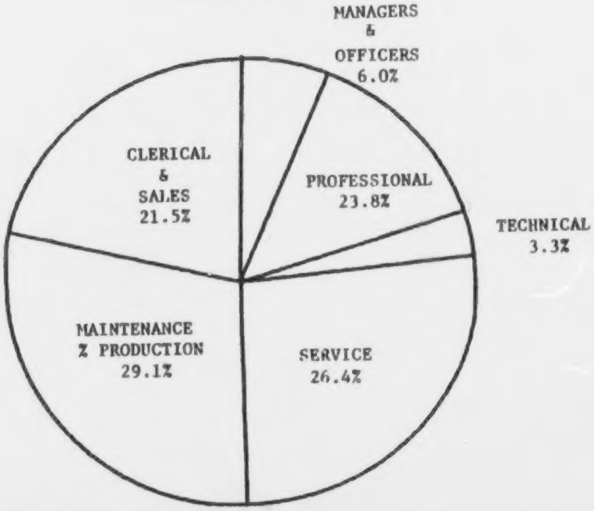


FIGURE 19: OCCUPATIONS MOST FREQUENTLY REPORTED IN GOVERNMENT

Occupations	Estimated 1979 Employment	Pct. of Area Total
FEDERAL GOVERNMENT		
Postal Mail Carriers	4,446	11.5
Managers & Officers	2,986	7.7
Teachers, Nonvocational Education	2,235	5.8
General Clerks	1,925	5.0
Biological Science Technicians	1,789	4.6
Typists	1,460	3.8
Postal Service Clerks	907	2.3
Nurses, Professional	825	2.1
Nurse's Aides &/or Orderlies	783	2.0
STATE GOVERNMENT		
Managers & Officers	2,461	10.9
Typists	1,785	7.9
Correction Officers	1,316	5.8
Civil Engineering Technicians	1,176	5.2
Secretaries	1,134	5.0
General Clerks	1,035	4.6
Claims Takers, Unemployment Benefits	1,015	4.5
Highway-Maintenance Workers	740	3.3
Police Patrolmen/Women	521	2.3
LOCAL GOVERNMENT		
Police Patrolmen/Women	2,681	7.1
Managers & Officers	2,234	5.9
Group Recreation Workers	1,044	2.8
Secretaries	971	2.6
Refuse Collectors	914	2.4
General Clerks	889	2.4
Highway-Maintenance Workers	879	2.3
Police Officers	871	2.3
Gardeners & Groundskeepers	843	2.2

FIGURE 20: OCCUPATIONS WITH THE GREATEST NUMBER OF OPENINGS IN GOVERNMENT

Occupations	Number of Openings 1979-1983
FEDERAL GOVERNMENT	
Managers & Officers	584
Postal Mail Carriers	571
General Clerks	570
Typists	515
Teachers, Nonvocational Education	440
Biological Science Technicians	329
Nurses, Professional	263
Secretaries	242
Nurse's Aides and/or Orderlies	236
STATE GOVERNMENT	
Typists	735
Managers & Officers	640
Secretaries	437
Correction Officers	420
General Clerks	365
Claims Takers, Unemployment Benefits	343
Civil Engineering Technicians	265
Highway-Maintenance Workers	169
Caseworkers	166
LOCAL GOVERNMENT	
Managers & Officers	661
Typists	637
Police Patrolmen/Women	574
Secretaries	432
General Clerks	364
Fire Fighters	325
Group Recreation Workers	311
Accounting Clerks	283
Gardeners & Groundskeepers	274

Professional and clerical workers are the largest occupational categories at the federal and state level, accounting for over half of the employment. More than 25 percent of those professional workers employed by the federal government are adult education teachers, most of whom work for the Bureau of Indian Affairs.

Over half of the people working for local governments are in maintenance, production, and service occupations. Large numbers of refuse collectors, highway-maintenance workers, gardeners, and groundskeepers account for the high percentage of maintenance and production workers. Thousands of police and fire fighters account for the high percentage of service workers. Local government workers manage, maintain, and provide services to communities.

OCCUPATIONAL TRENDS

The proportion of federal workers employed in professional, technical, and administrative jobs has gradually increased in recent years, while the proportion of employees in clerical and blue-collar jobs has decreased. These trends are expected to continue. The federal government's increasing use of labor-saving electronic data processing and materials handling equipment, and the introduction of improved data transmission and communication systems, will limit employment growth in many clerical and blue-collar occupations.

The Postal Service employs about 15 percent of the federal government workers in the state. Mechanization of mail processing and more efficient delivery will allow the Postal Service to handle increasing amounts of mail without large increases in employment. The federal government has proposed eliminating Saturday mail deliveries, which would further decrease employment gains in Postal Service occupations.

At the state and local levels, workers will be needed to provide additional street and highway facilities, police and fire protection, welfare, and other services. Occupations particularly in demand will include police, fire fighters, correction officers, typists, secretaries, and managers.

Most positions in state and local governments are filled by state or local residents. If a shortage of a particular skill exists, workers may be recruited from outside the area.

OCCUPATIONAL STRUCTURE

The following tables provide employment estimates and projected employment and job openings for federal, state, and local government. Statewide and individual county employment figures are provided for federal and local government. A state government table is provided for statewide employment only, because data were not available at the county level. Figure 7 on page 4 lists total state government employment for each county.

When using the data, please note the following:

1) The data reflect full and part-time wage and salary employment only.

2) Total job openings represent the number of openings due to growth of the industry and separations from the labor force. They do not account for labor turnover, i.e., openings created when a worker changes jobs, leaving the job to be filled by someone else. These vacancies are generally the largest source of job openings.

3) The tables do not include the uniformed military, state and local government-operated hospitals, and state and local government-operated educational facilities. Educational facilities and hospitals operated by the federal government are included.

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
STATE GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	2,461	10.9	2,803	10.9	640
Public Administration Inspectors	785	3.5	894		197
Construction Inspectors	48	0.2	55		15
Chief Executives & Legislators	91	0.4	104		25
All Other Managers & Officers	1,537	6.8	1,750		403
TOTAL PROFESSIONAL WORKERS	5,369	23.8	6,298	24.5	1,707
Civil Engineers	236	1.0	277		67
Electrical & Electronic Engineers	8	0.0	9		1
Safety Engineers	1	0.0	1		0
Traffic Engineers	30	0.1	35		9
All Other Engineers	32	0.1	38		6
Mathematical Scientists	92	0.4	108		40
Chemists	19	0.1	22		3
Geologists & Geophysicists	22	0.1	26		4
All Other Physical Scientists	10	0.0	12		2
Agricultural Scientists	3	0.0	4		1
Biological Scientists	22	0.1	26		8
Foresters & Conservation Scientists	20	0.1	23		3
Economists	84	0.4	99		23
Psychologists	38	0.2	45		11
Urban and Regional Planners	40	0.2	47		7
Systems Analysts, EDP	98	0.4	115		21
Vocational & Educational Counselors	193	0.9	226		62
Photographers	5	0.0	6		1
Purchasing Agents &/or Buyers	41	0.2	48		11
Accountants & Auditors	484	2.2	568		155
Landscape Architects	12	0.0	14		2
Architects (Exclude Landscape Architects)	6	0.0	7		1
Budget Analysts	54	0.2	63		17
Caseworkers	441	1.9	517		166
Commercial Artists	26	0.1	30		8
Dietitions &/or Nutritionists	11	0.0	13		6
Writers &/or Editors	7	0.0	8		1
Employment Interviewers	480	2.1	563		142
Law Clerks	62	0.3	73		15
Lawyers	235	1.0	276		62
Librarians, Professional	37	0.2	43		16
Nurses, Professional	79	0.3	93		34
Occupational Therapists	1	0.0	1		0
Paralegal Personnel	22	0.1	26		8
Personnel & Labor Relations Specialists	82	0.4	96		24
Physical Therapists	1	0.0	1		0
Physicians &/or Surgeons	69	0.3	81		20
Public Relations Practitioners	30	0.1	35		9
Veterinarians	17	0.1	20		3
Community Organization Workers	12	0.1	14		6
Welfare Investigators	101	0.4	118		33
Judges	24	0.1	28		10
Tax Examiners, Collectors, &/or Revenue Agents	47	0.2	55		16
All Other Therapists	27	0.1	32		9
Appraisers, Real Estate	72	0.3	84		24
Group Recreation Workers	9	0.0	10		1
Manual Arts, Music, &/or Recreational Therapists	1	0.0	1		0
Speech Pathologists &/or Audiologists	2	0.0	2		0
Claims [illegible], Unemployment Benefits	1,015	4.5	1,191		343
All Other Professional Workers	909	4.0	1,066		296
TOTAL TECHNICAL WORKERS	2,366	10.5	2,697	10.5	536
Computer Programmers	127	0.6	145		26
Drafters	110	0.5	125		23
Electrical & Electronic Technicians	49	0.2	56		11

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
STATE GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Surveyors	92	0.4	105		17
Civil Engineering Technicians	1,176	5.2	1,341		265
All Other Engineering Technicians	293	1.3	334		66
Science Technicians	10	0.0	11		1
Licensed Practical Nurses	19	0.1	22		7
Physician's Assistants	33	0.1	37		12
Technical Assistants, Library	8	0.0	9		1
Medical and Dental Technicians & Technologists	30	0.1	34		12
All Other Technical Workers	419	1.9	478		95
TOTAL SERVICE WORKERS	4,269	18.9	4,843	18.9	1,228
Janitors, Porters, & Cleaners	247	1.1	280		71
Guards & Doorkeepers	111	0.5	126		19
Kitchen Helpers	28	0.1	32		8
Cooks, Institution	106	0.5	120		32
All Other Food Service Workers	8	0.0	9		1
Supervisors, Nonworking Service	245	1.1	278		53
Nurse's Aides &/or Orderlies	39	0.2	44		13
Forest Conservation Workers	11	0.0	12		1
Fish & Game Wardens	63	0.3	71		12
Social Service Aides	30	0.1	34		10
Officers, Police	194	0.9	220		34
Detectives, Police	125	0.5	142		21
Police Patrolmen/women	521	2.3	591		92
Correction Officers &/or Jailers	1,316	5.8	1,494		420
Bailiffs	2	0.0	2		0
All Other Service Workers	1,223	5.4	1,388		441
TOTAL MAINTENANCE & PRODUCTION WORKERS	2,071	9.2	2,349	9.1	468
Mechanics, Automotive	33	0.1	37		6
Mechanics, Diesel	116	0.5	132		24
Mechanics, Maintenance	5	0.0	6		1
Mechanics, Radio	6	0.0	7		1
All Other Mechanics & Repairers	24	0.1	27		3
Carpenters	24	0.1	27		7
Delivery &/or Route Workers	44	0.2	50		10
Electricians	20	0.1	23		3
Supervisors, Nonworking	209	0.9	237		44
Heavy Equipment Operators	34	0.2	39		9
Industrial Truck Operators	11	0.1	12		1
Machinists	1	0.0	1		0
Maintenance Repairers, General Utility	141	0.6	160		29
Helpers, Trades	11	0.0	12		1
Painters, Maintenance	10	0.0	11		1
Plumbers &/or Pipefitters	10	0.0	11		1
Stationary Engineers	9	0.0	10		1
Streetlight Repairers & Servicers	46	0.2	52		10
Welders and Flamecutters	16	0.1	18		2
Fuel Pump Attendants &/or Lubricators	33	0.1	37		8
Highway Maintenance Workers	740	3.3	839		169
Surveyor Helpers	296	1.3	336		72
Gardeners and Groundskeepers	183	0.8	208		54
All Other Skilled Craft Workers	4	0.0	5		1
All Other Operatives & Semiskilled Workers	30	0.1	34		8
All Other Laborers & Unskilled Workers	15	0.1	17		2
TOTAL OFFICE CLERICAL WORKERS	5,829	25.9	6,505	25.3	2,150
Bookkeeping &/or Billing Machine Operators	4	0.0	4		0
Computer Operators	151	0.9	168		33
Keypunch Operators	251	1.1	280		93
Duplicating Machine Operators	59	0.3	66		23
All Other Office Machine Operators	44	0.2	49		17

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
STATE GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Accounting Clerks	404	1.8	451		138
Bookkeepers, Hand	4	0.0	4		0
Cashiers	62	0.3	69		22
General Clerks	1,035	4.6	1,155		365
Library Assistants	21	0.1	23		7
Mail Clerks	63	0.3	70		19
Personnel Clerks	48	0.2	53		20
Receptionists	2	0.0	2		0
Secretaries	1,134	5.0	1,265		437
Statistical Clerks	95	0.4	106		34
Switchboard Operators	53	0.2	59		22
Switchboard Operators/Receptionists	2	0.0	2		0
Messengers	29	0.1	32		7
Typists	1,785	7.9	1,992		735
Clerical Supervisors	189	0.8	211		46
Eligibility Workers, Welfare	107	0.5	119		32
Court Clerks	23	0.1	26		7
License Clerks	69	0.3	77		24
All Other Office Clerical Workers	195	0.9	218		69
TOTAL PLANT CLERICAL WORKERS	170	0.8	189	0.7	39
Weighers, Record-Keeping	3	0.0	3		0
Stock Clerks	104	0.5	116		24
Dispatchers, Police, Fire, & Ambulance	63	0.3	70		15
TOTAL SALES WORKERS	3	0.0	3	0.0	0
Sales Representatives	3	0.0	3		0
TOTAL ALL OCCUPATIONS	22,538	100.0	25,687	100.0	6,768

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	2,951	7.7	3,196	7.7	611
Public Administration Inspectors	699	1.8	758		136
Construction Inspectors	122	.3	130		24
Postmasters and/or Mail Superintendents	186	.5	210		70
All Other Managers & Officers	1,944	5.0	2,095		381
TOTAL PROFESSIONAL WORKERS	7,958	20.4	8,715	20.7	1,673
Aeronautical Engineers	10	.0	10		0
Agricultural Engineers	13	.0	13		0
Chemical Engineers	1	.0	1		0
Civil Engineers	212	.5	228		37
Electrical & Electronic Engineers	309	.8	351		54
Industrial Engineers	16	.0	17		1
Mechanical Engineers	40	.1	46		6
Mining Engineers	11	.0	11		0
Safety Engineers	5	.0	5		0
All Other Engineers	100	.3	108		12
Mathematicians	38	.1	43		15
Statisticians	10	.0	10		0
All Other Mathematical Scientists	27	.1	30		11
Chemists	15	.0	15		0
Geologists & Geophysicists	122	.3	131		16
Meteorologists	24	.1	25		1
Physicists	12	.0	13		1
All Other Physical Scientists	18	.0	20		2
Agricultural Scientists	57	.1	62		13
Biological Scientists	201	.5	215		38
Foresters & Conservation Scientists	347	.9	391		64
Economists	24	.1	26		6
Psychologists	86	.2	90		11
Sociologists	1	.0	1		0
Urban & Regional Planners	2	.0	2		0
All Other Social Scientists	93	.2	101		16
Systems Analysts, EDP	252	.7	284		40
Teachers, Nonvocational Education	2,227	5.8	2,497		511
Photographers	44	.1	49		9
Purchasing Agents and/or Buyers	236	.6	256		44
Accountants & Auditors	223	.6	241		49
Landscape Architects	17	.0	18		1
Architects (Exclude Landscape Architects)	16	.0	17		1
Caseworkers	143	.4	156		41
Clergy	22	.1	23		5
Commercial Artists	39	.1	43		12
Dentists	34	.1	37		7
Dietitians and/or Nutritionists	32	.1	33		9
Writers and/or Editors	69	.2	76		19
Law Clerks	49	.1	50		5
Lawyers	122	.3	129		16
Librarians, Professional	27	.1	28		9
Model Makers	8	.0	8		0
Curators, Museum	5	.0	5		0
Nurses, Professional	827	2.1	890		253
Occupational Therapists	6	.0	6		0
Optometrists	3	.0	3		0
Paralegal Personnel	5	.0	5		0
Personnel & Labor Relations Specialists	259	.7	280		50
Pharmacists	74	.2	79		17
Physical Therapists	13	.0	14		5
Physicians and/or Surgeons	557	1.4	589		98
Podiatrists	2	.0	2		0
Public Relations Practitioners	23	.1	24		5
Veterinarians	18	.0	19		1
Designers	2	.0	2		0
Judges	19	.0	20		5

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Tax Examiners, Collectors, and/or Revenue Agents	295	.7	308		52
Appraisers, Real Estate	71	.2	74		15
Group Recreation Workers	115	.3	128		29
Manual Arts, Music, and/or Recreational Therapists	1	.0	1		0
Speech Pathologists and/or Audiologists	10	.0	11		0
Corrective Therapists	2	.0	2		0
All Other Professional Workers	297	.7	316		61
TOTAL TECHNICAL WORKERS	5,111	13.4	5,666	13.5	1,079
Computer Programmers	63	.2	69		10
Drafters	66	.2	71		9
Electrical & Electronic Technicians	322	.9	354		48
Surveyors	181	.5	200		27
Radiographers	6	.0	6		0
Mechanical Engineering Technicians	1	.0	1		0
Broadcast Technicians	26	.1	27		1
All Other Engineering Technicans	365	1.0	402		68
Physical Science Technicians	96	.2	105		17
Biological Science Technicians	1,717	4.6	1,942		395
Air Traffic Controllers	333	.8	352		27
Dental Assistants	61	.2	66		25
Mathematical Technicians	18	.1	20		2
Physician's Assistants	30	.1	32		10
Museum Technicians and/or Restorers	1	.0	1		0
Airplane Pilots	91	.2	95		8
Radio Operators	10	.0	12		2
Technical Assistants, Library	39	.1	42		14
Pharmacy Helpers	22	.1	22		4
Medical Records Librarians	80	.2	89		33
Dental Hygienists	1	.0	1		0
Medical Laboratory Technologists	99	.4	108		42
Radiologic and/or Nuclear Medical Technologists	135	.2	144		23
Electrocardiograph Technicians	61	.2	64		11
All Other Medical & Dental Technicians & Technologists	120	.3	132		81
All Other Technical Workers	1,167	3.1	1,301		222
TOTAL SERVICE WORKERS	3,101	8.0	3,320	8.0	656
All Other Janitors, Porters, & Cleaners	459	1.2	492		101
Guards & Doorkeepers	162	.4	175		21
Bakers, Bread and/or Pastry	4	.0	4		0
Butchers and/or Meat Cutters	85	.2	89		12
Kitchen Helpers	4	.0	4		0
Waiters/Waitresses	1	.0	1		0
Cooks, Institution	342	.9	375		88
All Other Food Service Workers	375	1.0	403		102
Barbers	5	.0	5		0
Supervisors, Nonworking Service	3	.0	3		0
Housekeepers	10	.0	10		4
Nurse's Aides and/or Orderlies	789	2.0	839		230
Forest Conservation Workers	42	.1	46		4
Fish & Game Wardens	3	.0	3		0
Guides, Sightseeing or Establishment	1	.0	1		0
Social Service Aides	22	.1	23		5
Medical Assistants	1	.0	1		0
Occupational Therapy Assistants	4	.0	4		0
Officers, Police	121	.3	129		12
Detectives, Police	349	.9	368		33

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Correction Officers and/or Jailers	44	.1	48		14
United States Marshalls	39	.1	39		8
Fire Fighters	228	.6	242		22
All Other Service Workers	8	.0	8		0
TOTAL MAINTENANCE & PRODUCTION WORKERS	6,914	17.6	7,368	18.0	922
Mechanics, Aircraft	778	2.0	791		44
Mechanics, Automotive	189	.5	200		23
Body Repairers, Automotive	8	.0	8		0
Camera Repairers and/or Motion Picture Camera Repairers	2	.0	2		0
Mechanics, Diesel	3	.0	3		0
Electric Motor Repairers	1	.0	1		0
Electric Tool Repairers	14	.0	14		0
Electrical Instrument Repairers	1	.0	1		0
Electromedical Equipment Repairers	17	.0	17		0
Gasoline Engine or Mower Repairers	1	.0	1		0
Gunsmiths	3	.0	3		0
Mechanics, Engineering Equipment	142	.4	152		18
Mechanics, Hydroelectric Machinery, Powerhouse, and/or Gas Plant Repairers	16	.0	20		4
Instrument Repairers, Optical	4	.0	4		0
Mechanics, Laundry Machine	2	.0	2		0
Locksmiths	8	.0	8		0
Mechanics, Maintenance	254	.7	269		31
Office Machine Servicers	2	.0	2		0
Mechanics, Refrigeration	137	.4	143		14
Mechanics, Treatment Plant	3	.0	3		0
Mechanics, Electronic	265	.7	281		28
Data Processing Machine Repairers	2	.0	2		0
Gas & Electric Appliance Repairers	4	.0	4		0
All Other Mechanics & Repairers	162	.4	167		17
Developers and/or Projection Printers	2	.0	2		0
Laundry Markers, Classifiers, and/or Assemblers	44	.1	46		14
Washers, Machine and/or Starchers	6	.0	6		0
Dry Cleaning Machine Operators	3	.0	3		0
Laundry Pressers, Machine	2	.0	2		0
Truck Drivers	510	1.3	549		67
Air Hammer Operators	1	.0	1		0
Blacksmiths	1	.0	1		0
Cabinetmakers	16	.0	16		0
Cable Splicers	33	.1	35		2
Carpenters	160	.4	172		28
Crane, Derrick, & Hoist Operators	24	.1	25		3
Craters	44	.1	44		7
Merchandise Displayers & Window Trimmers	3	.0	3		0
Drillers, Machine	1	.0	1		0
Electricians	206	.5	220		30
Exterminators	9	.0	9		0
Supervisors, Nonworking	108	.3	116		16
Heavy Equipment Operators	245	.7	270		41
Riggers	3	.0	3		0
Industrial Truck Operators	144	.4	150		10
Inspectors	4	.0	4		0
Telephone Installers, Repairers, and/or Section Maintainers	28	.1	32		4
Instrument Repairers	12	.0	13		1
Line Installers-Repairers	45	.1	51		10
Locomotive Engineers	1	.0	1		0
Machinists	30	.1	31		5
Maintenance Repairers, General Utility	348	.9	381		57
Oilers	4	.0	4		0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Painters, Maintenance	137	.4	144		23
Plasterers	3	.0	3		0
Electroplaters	1	.0	1		0
Plumbers and/or Pipefitters	132	.3	141		17
Production Packagers, Hand or Machine	2	.0	2		0
Motion Picture Projectionists	4	.0	4		0
Roofers	8	.0	9		1
Rotary Drill Operators	35	.1	38		7
Dental Laboratory Technicians	5	.0	5		0
Sandblasters and/or Shotblasters	5	.0	5		0
Sewage Plant Operators	14	.0	15		1
Sewing Machine Operators, Regular Equip.	7	.0	7		0
Sheet Metal Workers	69	.2	72		7
Stationary Boiler Firers	69	.2	75		14
Stationary Engineers	60	.2	66		10
Stonemasons	16	.0	16		0
Substation Operators	4	.0	5		0
Alteration Tailors	1	.0	1		0
Animal Caretakers	80	.2	83		15
Tire Fabricators and/or Repairers	2	.0	2		0
Tool & Die Makers	5	.0	5		0
Water Treatment Plant Operators	9	.0	9		0
Welders & Flamecutters	29	.1	30		5
Offset Lithographic Press Operators	29	.0	31		2
Strippers (Printing)	3	.0	3		0
Camera Operators, Printing	3	.0	3		0
Fuel Pump Attendants and/or Lubricators	21	.1	21		0
Stock Clerks, Sales Floor	150	.4	156		14
Highway Maintenance Workers	5	.0	5		0
Machine Tool Operators, Combination	1	.0	1		0
Saw Filers	1	.0	1		0
Testers	39	.1	44		9
Painters, Production	1	.0	1		0
Ceiling Tile Installers and/or Floor Layers	1	.0	1		0
Loading Machine Operators	52	.1	57		13
Dip Platers, Nonelectrolytic	2	.0	2		0
Upholsterers	1	.0	1		0
Bindery Workers	7	.0	8		1
Gardeners & Groundskeepers	19	.1	20		5
All Other Skilled Craft Workers	17	.0	18		1
All Other Operatives & Semiskilled Workers	174	.5	184		29
All Other Laborers & Unskilled Workers	1,636	4.3	1,758		274
TOTAL OFFICE CLERICAL WORKERS	7,394	18.9	7,862	18.7	2,146
Computer Operators	69	.2	74		13
Keypunch Operators	104	.3	110		32
Tabulating Machine Operators	4	.0	4		0
All Other Office Machine Operators	12	.0	12		4
Stenographers	369	.9	386		104
Accounting Clerks	366	.9	386		99
Bookkeepers, Hand	61	.2	65		16
Cashiers	34	.1	36		10
Claims Adjusters	44	.1	45		5
Claims Clerks	188	.5	194		47
Correspondence Clerks	1	.0	1		0
General Clerks	1,930	5.0	2,050		563
Information Clerks	145	.3	148		43
Mail Clerks	166	.4	176		38
Payroll and/or Timekeeping Clerks	102	.3	110		28
Personnel Clerks	244	.6	258		85
Procurement Clerks	73	.2	75		10
Real Estate Clerks	68	.2	72		21
Receptionists	20	.0	20		4
Secretaries	746	1.9	798		245

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Statistical Clerks	21	.0	21		4
Switchboard Operators	120	.3	127		42
Messengers	3	.0	3		0
Travel Clerks	17	.0	18		5
Typists	1,453	3.8	1,562		528
Clerical Supervisors	28	.1	28		4
Postal Service Clerks	907	2.3	967		166
All Other Office Clerical Workers	99	.3	105		30
TOTAL PLANT CLERICAL WORKERS	5,277	13.1	5,468	13.0	583
Production Clerks and/or Coordinators	51	.1	51		4
Shipping Packers	16	.0	16		0
Shipping and/or Receiving Clerks	21	.1	23		2
Stock Clerks	101	.3	105		16
Dispatchers, Vehicle, Service or Work	26	.1	27		5
Postal Mail Carriers	4,649	11.5	4,806		435
All Other Plant Clerical Workers	413	1.1	438		121
TOTAL SALES WORKERS	140	.4	147	.4	23
Sales Clerks	140	.4	147		23
TOTAL ALL OCCUPATIONS	38,846	100.0	41,742	100.0	7,794

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

APACHE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	99	112	13	16	29
Construction Inspectors	20	23	3	4	7
Postmasters and/or Mail Superintendents	11	12	1	4	5
All Other Managers & Officers	68	77	9	8	17
TOTAL PROFESSIONAL WORKERS	1,005	1,163	158	113	271
Civil Engineers	17	20	3	1	4
All Other Engineers	2	2	0	0	0
Geologists & Geophysicists	1	1	0	0	0
Agricultural Scientists	7	8	1	0	1
Biological Scientists	6	7	1	0	1
Foresters & Conservation Scientists	45	52	7	4	11
Psychologists	1	1	0	0	0
Teachers, Nonvocational Education	726	842	116	82	198
Photographers	1	1	0	0	0
Purchasing Agents and/or Buyers	9	10	1	0	1
Accountants & Auditors	7	8	1	0	1
Landscape Architects	1	1	0	0	0
Caseworkers	27	31	4	4	8
Dentists	7	8	1	0	1
Dietitions and/or Nutritionists	2	2	0	0	0
Writers and/or Editors	1	1	0	0	0
Lawyers	3	3	0	0	0
Librarians, Professional	2	2	0	0	0
Curators, Museum	1	1	0	0	0
Nurses, Professional	53	61	8	12	20
Personnel & Labor Relations Specialists	11	13	2	0	2
Pharmacists	8	9	1	0	1
Physicians and/or Surgeons	21	24	3	4	7
Public Relations Practitioners	1	1	0	0	0
Group Recreation Workers	40	46	6	6	12
All Other Professional Workers	5	6	1	0	1
TOTAL TECHNICAL WORKERS	520	601	81	62	143
Drafters	9	10	1	0	1
Electrical & Electronic Technicians	2	2	0	0	0
Surveyors	40	46	6	2	8
All Other Engineering Technicians	30	35	5	4	9
Biological Science Technicians	135	156	21	12	33
Dental Assistants	8	9	1	4	5
Physician's Assistants	3	3	0	0	0
Technical Assistants, Library	2	2	0	0	0
Pharmacy Helpers	1	1	0	0	0
Medical Records Librarians	14	16	2	4	6
Medical Laboratory Technologists	14	16	2	4	6
Radiologic Technologists and/or Nuclear Medical Technologists	5	6	1	0	1
All Other Medical & Dental Technicians & Technologists	18	21	3	12	15
All Other Technical Workers	239	276	37	20	57
TOTAL SERVICE WORKERS	282	321	39	51	90
All Other Janitors, Porters, & Cleaners	52	59	7	8	15
Guards & Doorkeepers	8	9	1	0	1
Cooks, Institution	85	97	12	15	27
All Other Food Service Workers	59	67	8	12	20
Nurse's Aides and/or Orderlies	64	73	9	16	25
Social Service Aides	5	6	1	0	1
Detectives, Police	9	10	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	442	500	58	33	91
Mechanics, Automotive	2	2	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

APACHE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Electric Tool Repairers	1	1	0	0	0
Electromedical Equipment Repairers	3	3	0	0	0
Mechanics, Engineering Equipment	8	9	1	0	1
Locksmiths	1	1	0	0	0
Mechanics, Maintenance	7	8	1	0	1
Mechanics, Refrigeration	1	1	0	0	0
Truck Drivers	71	80	9	4	13
Carpenters	9	10	1	0	1
Electricians	8	9	1	0	1
Supervisors, Nonworking	16	18	2	0	2
Heavy Equipment Operators	39	44	5	4	9
Maintenance Repairers, General Utility	50	57	7	4	11
Painters, Maintenance	17	19	2	3	5
Plumbers and/or Pipefitters	23	26	3	0	3
Rotary Drill Operators	1	1	0	0	0
Stationary Boiler Firers	10	11	1	0	1
Stationary Engineers	7	8	1	0	1
Welders & Flamecutters	1	1	0	0	0
Ceiling Tile Installers and/or Floor Layers	1	1	0	0	0
All Other Operatives & Semiskilled Workers	20	23	3	4	7
All Other Laborers & Unskilled Workers	146	165	19	14	33
TOTAL OFFICE CLERICAL WORKERS	361	409	48	88	136
Stenographers	7	8	1	0	1
Accounting Clerks	6	7	1	0	1
Bookkeepers, Hand	3	3	0	0	0
Claims Clerks	1	1	0	0	0
General Clerks	84	95	11	20	31
Information Clerks	1	1	0	0	0
Mail Clerks	1	1	0	0	0
Payroll and/or Timekeeping Clerks	2	2	0	0	0
Personnel Clerks	19	21	2	6	8
Procurement Clerks	3	3	0	0	0
Real Estate Clerks	5	6	1	0	1
Secretaries	68	77	9	19	28
Statistical Clerks	1	1	0	0	0
Switchboard Operators	1	1	0	0	0
Typists	130	147	17	39	56
Clerical Supervisors	2	2	0	0	0
Postal Service Clerks	24	27	3	4	7
All Other Office Clerical Workers	3	3	0	0	0
TOTAL PLANT CLERICAL WORKERS	12	13	1	0	1
Postal Mail Carriers	3	3	0	0	0
All Other Plant Clerical Workers	9	10	1	0	1
TOTAL ALL OCCUPATIONS	2,721	3,119	398	363	761

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

COCHISE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	696	783	87	86	173
Public Administration Inspectors	90	101	11	10	21
Construction Inspectors	2	2	0	0	0
Postmasters and/or Mail Superintendents	18	20	2	4	6
All Other Managers & Officers	586	659	73	72	145
TOTAL PROFESSIONAL WORKERS	1,056	1,208	152	83	235
Aeronautical Engineers	1	1	0	0	0
Civil Engineers	2	2	0	0	0
Electrical & Electronic Engineers	268	307	39	12	51
Industrial Engineers	4	5	1	0	1
Mechanical Engineers	5	6	1	0	1
Safety Engineers	3	3	0	0	0
All Other Engineers	21	24	3	0	3
Mathematicians	5	6	1	0	1
Statisticians	1	1	0	0	0
All Other Mathematical Scientists	23	26	3	6	9
Chemists	1	1	0	0	0
Meteorologists	2	2	0	0	0
Physicists	5	6	1	0	1
Agricultural Scientists	3	3	0	0	0
Biological Scientists	3	3	0	0	0
Foresters & Conservation Scientists	16	18	2	0	2
Economists	4	5	1	0	1
Psychologists	1	1	0	0	0
All Other Social Scientists	39	45	6	4	10
Systems Analysts, EDP	199	228	29	8	37
Teachers, Nonvocational Education	82	94	12	8	20
Photographers	11	13	2	0	2
Purchasing Agents and/or Buyers	47	54	7	4	11
Accountants and/or Auditors	66	75	9	8	17
Architects (Exclude Landscape Architects)	1	1	0	0	0
Caseworkers	2	2	0	0	0
Commercial Artists	24	27	3	4	7
Writers and/or Editors	51	58	7	9	16
Lawyers	7	8	1	0	1
Librarians, Professional	10	11	1	4	5
Curators, Museum	1	1	0	0	0
Nurses, Professional	21	24	3	4	7
Paralegal Personnel	2	2	0	0	0
Personnel & Labor Relations Specialists	70	80	10	8	18
Pharmacists	1	1	0	0	0
Physicians and/or Surgeons	13	15	2	0	2
Public Relations Practitioners	10	11	1	0	1
Veterinarians	3	3	0	0	0
Group Recreation Workers	2	2	0	0	0
All Other Professional Workers	26	30	4	4	8
TOTAL TECHNICAL WORKERS	469	536	67	44	111
Computer Programmers	27	31	4	0	4
Drafters	7	8	1	0	1
Electrical & Electronic Technicians	107	122	15	4	19
Broadcast Technicians	2	2	0	0	0
All Other Engineering Technicians	25	29	4	4	8
Biological Science Technicians	47	54	7	4	11
Air Traffic Controllers	25	29	4	0	4
Dental Assistants	7	8	1	4	5
Museum Technicians and/or Restorers	1	1	0	0	0
Airplane Pilots	7	8	1	0	1
Technical Assistants, Library	17	19	2	4	6
Pharmacy Helpers	1	1	0	0	0
Medical Records Librarians	4	5	1	0	1
Medical Laboratory Technologists	4	5	1	0	1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

COCHISE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Radiologic Technologists and/or Nuclear Medical Technologists	4	5	1	0	1
Electrocardiograph Technicians	1	1	0	0	0
All Other Medical & Dental Technicians & Technologists	15	17	2	9	11
All Other Technical Workers	168	192	24	15	39
TOTAL SERVICE WORKERS	180	203	23	15	38
All Other Janitors, Porters, & Cleaners	19	21	2	4	6
Guards & Doorkeepers	50	56	6	3	9
Bakers, Bread and/or Pastry	1	1	0	0	0
Butchers and/or Meat Cutters	14	16	2	0	2
Cooks, Institution	4	5	1	0	1
All Other Food Service Workers	12	14	2	4	6
Housekeepers	1	1	0	0	0
Nurse's Aides and/or Orderlies	23	26	3	4	7
Social Service Aides	3	3	0	0	0
Detectives, Police	11	12	1	0	1
Fire Fighters	42	47	5	0	5
TOTAL MAINTENANCE & PRODUCTION WORKERS	753	842	89	43	132
Mechanics, Aircraft	17	19	2	0	2
Mechanics, Automotive	34	38	4	3	7
Body Repairers, Automotive	1	1	0	0	0
Camera Repairers and/or Motion Picture Camera Repairers	1	1	0	0	0
Electric Motor Repairers	1	1	0	0	0
Electric Tool Repairers	2	2	0	0	0
Electromedical Equipment Repairers	3	3	0	0	0
Mechanics, Engineering Equipment	26	29	3	0	3
Instrument Repairers, Optical	3	3	0	0	0
Mechanics, Laundry Machine	1	1	0	0	0
Locksmiths	3	3	0	0	0
Mechanics, Maintenance	15	17	2	0	2
Office Machine Servicers	2	2	0	0	0
Mechanics, Refrigeration	15	17	2	0	2
Mechanics, Electronic	67	75	8	4	12
Gas & Electric Appliance Repairers	1	1	0	0	0
All Other Mechanics & Repairers	9	10	1	0	1
Laundry Markers, Classifiers and/or Assemblers	18	20	2	4	6
Washers, Machine and/or Starchers	2	2	0	0	0
Dry Cleaning Machine Operators	1	1	0	0	0
Laundry Pressers, Machine	2	2	0	0	0
Truck Drivers	50	56	6	4	10
Cabinetmakers	3	3	0	0	0
Cable Splicers	11	12	1	0	1
Carpenters	17	19	2	0	2
Crane, Derrick & Hoist Operators	1	1	0	0	0
Merchandise Displayers & Window Trimmers	3	3	0	0	0
Electricians	14	16	2	0	2
Exterminators	4	4	0	0	0
Supervisors, Nonworking	5	6	1	0	1
Heavy Equipment Operators	13	15	2	0	2
Riggers	1	1	0	0	0
Industrial Truck Operators	18	20	2	0	2
Telephone Installers, Repairers, and/or Section Maintainers	13	15	2	0	2
Machinists	2	2	0	0	0
Maintenance Repairers, General Utility	50	56	6	4	10
Painters, Maintenance	8	9	1	0	1
Plumbers and/or Pipefitters	28	31	3	4	7
Motion Picture Projectionists	4	4	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

COCHISE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Roofers	2	2	0	0	0
Sewage Plant Operators	5	6	1	0	1
Sewing Machine Operators, Regular Equipment	2	2	0	0	0
Sheet Metal Workers	13	15	2	0	2
Stationary Boiler Firers	15	17	2	0	2
Stationary Engineers	14	16	2	0	2
Stonemasons	4	4	0	0	0
Alteration Tailors	1	1	0	0	0
Animal Caretakers	15	17	2	4	6
Tire Fabricators and/or Repairers	1	1	0	0	0
Tool & Die Makers	1	1	0	0	0
Welders & Flamecutters	3	3	0	0	0
Offset Lithographic Press Operators	15	17	2	0	2
Strippers (Printing)	3	3	0	0	0
Camera Operators, Printing	1	1	0	0	0
Fuel Pump Attendants and/or Lubricators	2	2	0	0	0
Stock Clerks, Sales Floor	27	30	3	0	3
Bindery Workers	7	8	1	0	1
Gardeners & Groundskeepers	5	6	1	0	1
All Other Skilled Craft Workers	3	3	0	0	0
All Other Operatives & Semiskilled Workers	21	23	2	4	6
All Other Laborers & Unskilled Workers	124	139	15	12	27
TOTAL OFFICE CLERICAL WORKERS	1,198	1,341	143	290	433
Computer Operators	29	32	3	4	7
Keypunch Operators	30	34	4	8	12
Tabulating Machine Operators	4	4	0	0	0
All Other Office Machine Operators	2	2	0	0	0
Stenographers	48	54	6	12	18
Accounting Clerks	60	67	7	13	20
Bookkeepers, Hand	22	25	3	4	7
Cashiers	8	9	1	0	1
Claims Clerks	3	3	0	0	0
General Clerks	266	298	32	63	95
Information Clerks	2	2	0	0	0
Mail Clerks	49	55	6	8	14
Payroll and/or Timekeeping Clerks	37	41	4	8	12
Personnel Clerks	49	55	6	16	22
Procurement Clerks	12	13	1	0	1
Real Estate Clerks	1	1	0	0	0
Secretaries	230	257	27	62	89
Statistical Clerks	1	1	0	0	0
Switchboard Operators	25	28	3	8	11
Travel Clerks	5	6	1	0	1
Typists	251	281	30	74	104
Clerical Supervisors	2	2	0	0	0
Postal Service Clerks	37	41	4	4	8
All Other Office Clerical Workers	25	28	3	6	9
TOTAL PLANT CLERICAL WORKERS	240	268	28	34	62
Production Clerks and/or Coordinators	4	4	0	0	0
Shipping Packers	2	2	0	0	0
Shipping &/or Receiving Clerks	8	9	1	0	1
Stock Clerks	18	20	2	2	4
Dispatchers, Vehicle, Service or Work	9	10	1	0	1
Postal Mail Carriers	84	94	10	4	14
All Other Plant Clerical Workers	115	128	13	28	41
TOTAL SALES WORKERS	29	33	4	4	8
Sales Clerks	29	33	4	4	8
TOTAL ALL OCCUPATIONS	4,621	5,214	593	599	1,192

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

COCONINO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	139	154	15	19	34
Construction Inspectors	8	9	1	0	1
Postmasters & Mail Superintendents	11	12	1	4	5
All Other Managers & Officers	120	133	13	15	28
TOTAL PROFESSIONAL WORKERS	851	962	111	90	201
Agricultural Engineers	1	1	0	0	0
Civil Engineers	18	20	2	2	4
Electrical & Electronic Engineers	3	3	0	0	0
All Other Engineers	2	2	0	0	0
Mathematicians	6	7	1	0	1
Geologists & Geophysicists	48	54	6	4	10
All Other Physical Scientists	13	15	2	0	2
Agricultural Scientists	11	12	1	0	1
Biological Scientists	9	10	1	0	1
Foresters & Conservation Scientists	105	119	14	6	20
Economists	2	2	0	0	0
All Other Social Scientists	3	3	0	0	0
Systems Analysts, EDP	2	2	0	0	0
Teachers, Nonvocational Education	436	493	57	49	106
Photographers	3	3	0	0	0
Purchasing Agents and/or Buyers	16	18	2	1	3
Accountants & Auditors	2	2	0	0	0
Landscape Architects	5	6	1	0	1
Caseworkers	11	12	1	4	5
Commercial Artists	5	6	1	0	1
Dentists	5	6	1	0	1
Dietitians and/or Nutritionists	1	1	0	0	0
Writers and/or Editors	2	2	0	0	0
Librarians, Professional	2	2	0	0	0
Nurses, Professional	63	71	8	16	24
Optometrists	1	1	0	0	0
Personnel & Labor Relations Specialists	8	9	1	0	1
Pharmacists	5	6	1	0	1
Physical Therapists	1	1	0	0	0
Physicians and/or Surgeons	13	15	2	0	2
Designers	1	1	0	0	0
Tax Examiners, Collectors and/or Revenue Agents	3	3	0	0	0
Group Recreation Workers	25	28	3	4	7
All Other Professional Workers	20	23	3	4	7
TOTAL TECHNICAL WORKERS	957	1,082	125	93	218
Computer Programmers	12	14	2	0	2
Drafters	3	3	0	0	0
Electrical & Electronic Technicians	14	16	2	0	2
Surveyors	31	35	4	0	4
Broadcast Technicians	2	2	0	0	0
All Other Engineering Technicians	42	48	6	4	10
Physical Science Technicians	39	44	5	4	9
Biological Science Technicians	581	657	76	56	132
Air Traffic Controllers	8	9	1	0	1
Dental Assistants	6	7	1	0	1
Physician's Assistants	5	6	1	0	1
Airplane Pilots	3	3	0	0	0
Technical Assistants, Library	6	7	1	0	1
Pharmacy Helpers	3	3	0	0	0
Medical Records Librarians	9	10	1	4	5
Medical Laboratory Technologists	11	12	1	4	5
Nuclear Medical Technologists	7	8	1	0	1
Electrocardiograph Technicians	2	2	0	0	0
All Other Medical & Dental Technicians & Technologists	15	17	2	9	11
All Other Technical Workers	158	179	21	12	33

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

COCONINO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL SERVICE WORKERS	308	342	34	45	79
All Other Janitors, Porters, & Cleaners	51	57	6	8	14
Guards & Doorkeepers	39	43	4	0	4
Cooks, Institution	63	70	7	12	19
All Other Food Service Workers	47	52	5	8	13
Housekeepers	2	2	0	0	0
Nurse's Aides and/or Orderlies	74	82	8	17	25
Social Service Aides	1	1	0	0	0
Occupational Therapy Assistants	2	2	0	0	0
Officers, Police	9	10	1	0	1
Detectives, Police	8	9	1	0	1
Fire Fighters	12	13	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	596	659	63	48	111
Mechanics, Automotive	8	9	1	0	1
Electric Tool Repairers	1	1	0	0	0
Electromedical Equipment Repairers	1	1	0	0	0
Gasoline Engine or Mower Repairers	1	1	0	0	0
Mechanics, Engineering Equipment	9	10	1	0	1
Mechanics, Hydroelectric Machinery, Powerhouse, and/or Gas Plant Repairers	8	9	1	0	1
Mechanics, Maintenance	13	14	1	0	1
All Other Mechanics & Repairers	1	1	0	0	0
Truck Drivers	52	58	6	4	10
Blacksmiths	1	1	0	0	0
Carpenters	32	35	3	4	7
Crane, Derrick, & Hoist Operators	1	1	0	0	0
Craters	1	1	0	0	0
Electricians	17	19	2	0	2
Supervisors, Nonworking	11	12	1	0	1
Heavy Equipment Operators	41	45	4	4	8
Instrument Repairers	1	1	0	0	0
Machinists	2	2	0	0	0
Maintenance Repairers, General Utility	61	67	6	4	10
Painters, Maintenance	20	22	2	4	6
Plasterers	1	1	0	0	0
Plumbers and/or Pipefitters	7	8	1	0	1
Roofers	6	7	1	0	1
Sewage Plant Operators	2	2	0	0	0
Stationary Boiler Firers	7	8	1	0	1
Stationary Engineers	20	22	2	4	6
Stonemasons	2	2	0	0	0
Water Treatment Plant Operators	2	2	0	0	0
Fuel Pump Attendants and/or Lubricators	1	1	0	0	0
Loading Machine Operators	28	31	3	4	7
All Other Skilled Craft Workers	1	1	0	0	0
All Other Operatives & Semiskilled Workers	12	13	1	0	1
All Other Laborers & Unskilled Workers	225	249	24	20	44
TOTAL OFFICE CLERICAL WORKERS	378	419	41	90	131
Computer Operators	8	9	1	0	1
Keypunch Operators	3	3	0	0	0
Stenographers	5	6	1	0	1
Accounting Clerks	16	18	2	4	6
Bookkeepers, Hand	3	3	0	0	0
Claims Clerks	3	3	0	0	0
General Clerks	125	139	14	30	44
Information Clerks	1	1	0	0	0
Mail Clerks	9	10	1	0	1
Payroll and/or Timekeeping Clerks	2	2	0	0	0
Personnel Clerks	10	11	1	4	5
Procurement Clerks	2	2	0	0	0
Real Estate Clerks	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

COCONINO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Receptionists	1	1	0	0	0
Secretaries	27	30	3	8	11
Switchboard Operators	7	8	1	4	5
Typists	124	137	13	36	49
Clerical Supervisors	1	1	0	0	0
Postal Service Clerks	29	32	3	4	7
All Other Office Clerical Workers	1	1	0	0	0
TOTAL PLANT CLERICAL WORKERS	89	99	10	8	18
Postal Mail Carriers	77	86	9	4	13
All Other Plant Clerical Workers	12	13	1	4	5
TOTAL ALL OCCUPATIONS	3,318	3,717	399	393	792

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

GILA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	22	26	4	4	8
Construction Inspectors	2	2	0	0	0
Postmasters and/or Mail Superintendents	10	12	2	4	6
All Other Managers & Officers	10	12	2	0	2
TOTAL PROFESSIONAL WORKERS	59	72	13	4	17
Agricultural Engineers	1	1	0	0	0
Civil Engineers	1	1	0	0	0
Mining Engineers	1	1	0	0	0
Biological Scientists	2	2	0	0	0
Foresters & Conservation Scientists	20	24	4	0	4
Teachers, Nonvocational Education	8	10	2	0	2
Caseworkers	5	6	1	0	1
Dentists	1	1	0	0	0
Nurses, Professional	13	16	3	4	7
Pharmacists	2	2	0	0	0
Physicians and/or Surgeons	4	5	1	0	1
All Other Professional Workers	1	1	0	0	0
TOTAL TECHNICAL WORKERS	173	211	38	13	51
Electrical & Electronic Technicians	3	4	1	0	1
Surveyors	2	2	0	0	0
All Other Engineering Technicians	3	4	1	0	1
Biological Science Technicians	134	163	29	13	42
Physician's Assistants	1	1	0	0	0
Radio Operators	3	4	1	0	1
Medical Records Librarians	3	4	1	0	1
Medical Laboratory Technologists	3	4	1	0	1
Radiologic and/or Nuclear Medical Technologists	1	1	0	0	0
All Other Medical & Dental Technicians & Technologists	3	4	1	0	1
All Other Technical Workers	17	21	4	0	4
TOTAL SERVICE WORKERS	35	42	7	4	11
All Other Janitors, Porters, & Cleaners	4	5	1	0	1
Guards & Doorkeepers	1	1	0	0	0
Cooks, Institution	3	4	1	0	1
All Other Food Service Workers	2	2	0	0	0
Nurse's Aides and/or Orderlies	14	17	3	4	7
Officers, Police	10	12	2	0	2
Detectives, Police	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	96	114	18	4	22
Mechanics, Automotive	1	1	0	0	0
Mechanics, Engineering Equipment	2	2	0	0	0
Mechanics, Maintenance	1	1	0	0	0
Truck Drivers	4	5	1	0	1
Carpenters	3	4	1	0	1
Electricians	1	1	0	0	0
Supervisors, Nonworking	2	2	0	0	0
Heavy Equipment Operators	16	19	3	0	3
Line Installers-Repairers	2	2	0	0	0
Maintenance Repairers, General Utility	4	5	1	0	1
Painters, Maintenance	1	1	0	0	0
Stationary Boiler Firers	1	1	0	0	0
Stationary Engineers	2	2	0	0	0
Fuel Pump Attendants and/or Lubricators	1	1	0	0	0
All Other Skilled Craft Workers	1	1	0	0	0
All Other Laborers & Unskilled Workers	54	64	10	4	14
TOTAL OFFICE CLERICAL WORKERS	64	77	13	12	25
Accounting Clerks	2	2	0	0	0
Cashiers	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

GILA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Claims Clerks	2	2	0	0	0
General Clerks	19	23	4	4	8
Information Clerks	1	1	0	0	0
Secretaries	4	5	1	0	1
Typists	22	26	4	8	12
Postal Service Clerks	13	16	3	0	3
TOTAL PLANT CLERICAL WORKERS	34	40	6	4	10
Postal Mail Carriers	32	38	6	4	10
All Other Plant Clerical Workers	2	2	0	0	0
TOTAL ALL OCCUPATIONS	483	582	99	45	144

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

GRAHAM COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	18	19	1	0	1
Construction Inspectors	1	1	0	0	0
Postmasters and/or Mail Superintendents	6	6	0	0	0
All Other Managers & Officers	11	12	1	0	1
TOTAL PROFESSIONAL WORKERS	23	25	2	0	2
Civil Engineers	1	1	0	0	0
Geologists & Geophysicists	2	2	0	0	0
Agricultural Scientists	1	1	0	0	0
Biological Scientists	5	6	1	0	1
Foresters & Conservation Scientists	9	10	1	0	1
All Other Social Scientists	2	2	0	0	0
Teachers, Nonvocational Education	1	1	0	0	0
Personnel & Labor Relations Specialists	1	1	0	0	0
Veterinarians	1	1	0	0	0
TOTAL TECHNICAL WORKERS	30	32	2	4	6
Electrical & Electronic Technicians	1	1	0	0	0
All Other Engineering Technicians	1	1	0	0	0
Biological Science Technicians	28	30	2	4	6
TOTAL SERVICE WORKERS	23	24	1	4	5
Kitchen Helpers	3	3	0	0	0
Supervisors, Nonworking Service	1	1	0	0	0
Medical Assistants	1	1	0	0	0
Detectives, Police	1	1	0	0	0
Correction Officers and/or Jailers	17	18	1	4	5
TOTAL MAINTENANCE & PRODUCTION WORKERS	9	10	1	0	1
Mechanics, Automotive	1	1	0	0	0
Mechanics, Maintenance	1	1	0	0	0
Electricians	1	1	0	0	0
Supervisors, Nonworking	1	1	0	0	0
Maintenance Repairers, General Utility	1	1	0	0	0
Sewing Machine Operators, Regular Equipment	1	1	0	0	0
Stationary Boiler Firers	1	1	0	0	0
All Other Laborers & Unskilled Workers	2	2	0	0	0
TOTAL OFFICE CLERICAL WORKERS	31	33	2	4	6
Stenographers	2	2	0	0	0
Accounting Clerks	1	1	0	0	0
Claims Clerks	1	1	0	0	0
General Clerks	12	13	1	4	5
Secretaries	1	1	0	0	0
Typists	5	5	0	0	0
Postal Service Clerks	9	10	1	0	1
TOTAL PLANT CLERICAL WORKERS	9	9	0	0	0
Postal Mail Carriers	9	9	0	0	0
TOTAL ALL OCCUPATIONS	143	152	9	12	21

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

GREENLEE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	4	8	4	0	4
Postmasters and/or Mail Superintendents	4	8	4	0	4
TOTAL PROFESSIONAL WORKERS	5	11	6	0	6
Agricultural Scientists	1	2	1	0	1
Foresters & Conservation Scientists	4	9	5	0	5
TOTAL TECHNICAL WORKERS	15	32	17	3	20
Biological Scientists	15	32	17	3	20
TOTAL OFFICE CLERICAL WORKERS	9	19	10	0	10
General Clerks	1	2	1	0	1
Typists	1	2	1	0	1
Postal Service Clerks	7	15	8	0	8
TOTAL PLANT CLERICAL WORKERS	13	27	14	0	14
Postal Mail Carriers	13	27	14	0	14
TOTAL ALL OCCUPATIONS	46	97	51	3	54

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	943	970	27	108	135
Public Administration Inspectors	160	165	5	16	21
Construction Inspectors	48	49	1	4	5
Postmasters and/or Mail Superintendents	32	33	1	8	9
All Other Managers & Officers	703	723	20	80	100
TOTAL PROFESSIONAL WORKERS	2,522	2,635	113	306	419
Aeronautical Engineers	7	7	0	0	0
Agricultural Engineers	7	7	0	0	0
Civil Engineers	118	123	5	12	17
Electrical & Electronic Engineers	22	23	1	0	1
Industrial Engineers	5	5	0	0	0
Mechanical Engineers	2	2	0	0	0
Mining Engineers	8	8	0	0	0
Safety Engineers	2	2	0	0	0
All Other Engineers	31	32	1	0	1
Mathematicians	4	4	0	0	0
Statisticians	7	7	0	0	0
All Other Mathematical Scientists	1	1	0	0	0
Chemists	7	7	0	0	0
Geologists & Geophysicists	32	33	1	0	1
Meteorologists	19	20	1	0	1
Physicists	5	5	0	0	0
All Other Physical Scientists	1	1	0	0	0
Agricultural Scientists	19	20	1	4	5
Biological Scientists	100	104	4	12	16
Foresters & Conservation Scientists	62	65	3	4	7
Economists	13	14	1	0	1
Psychologists	55	57	2	4	6
Sociologists	1	1	0	0	0
Urban & Regional Planners	2	2	0	0	0
All Other Social Scientists	19	20	1	0	1
Systems Analysts, EDP	23	24	1	0	1
Teachers, Nonvocational Education	198	207	9	20	29
Photographers	6	6	0	0	0
Purchasing Agents and/or Buyers	109	114	5	12	17
Accountants & Auditors	110	115	5	16	21
Landscape Architects	7	7	0	0	0
Architects (Exclude Landscape Architects)	12	13	1	0	1
Caseworkers	47	49	2	8	10
Clergy	13	14	1	0	1
Commercial Artists	5	5	0	0	0
Dentists	8	8	0	0	0
Dietitions and/or Nutritionists	18	19	1	4	5
Writers and/or Editors	6	6	0	0	0
Law Clerks	32	33	1	4	5
Lawyers	87	91	4	8	12
Librarians, Professional	6	6	0	0	0
Model Makers	8	8	0	0	0
Curators, Museum	1	1	0	0	0
Nurses, Professional	347	363	16	78	94
Occupational Therapists	2	2	0	0	0
Optometrists	1	1	0	0	0
Paralegal Personnel	1	1	0	0	0
Personnel & Labor Relations Specialists	115	120	5	12	17
Pharmacists	28	29	1	4	5
Physical Therapists	5	5	0	0	0
Physicians and/or Surgeons	249	260	11	28	39
Podiatrists	1	1	0	0	0
Public Relations Practitioners	11	11	0	0	0
Veterinarians	12	13	1	0	1
Designers	1	1	0	0	0
Judges	17	18	1	4	5

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Tax Examiners, Collectors, and/or Revenue Agents	234	244	10	32	42
Appraisers, Real Estate	66	69	3	12	15
Group Recreation Workers	22	23	1	4	5
Speech Pathologists and/or Audiologists	4	4	0	0	0
All Other Professional Workers	161	168	7	24	31
TOTAL TECHNICAL WORKERS	1,159	1,211	52	110	162
Computer Programmers	11	11	0	0	0
Drafters	35	37	2	4	6
Electrical & Electronic Technicians	86	90	4	4	8
Surveyors	43	45	2	2	4
Radiographers	2	2	0	0	0
Mechanical Engineering Technicians	1	1	0	0	0
Broadcast Technicians	7	7	0	0	0
All Other Engineering Technicians	142	148	6	12	18
Physical Science Technicians	22	23	1	0	1
Biological Science Technicians	227	237	10	20	30
Air Traffic Controllers	185	193	8	4	12
Dental Assistants	14	15	1	4	5
Physician's Assistants	4	4	0	0	0
Airplane Pilots	38	40	2	0	2
Radio Operators	2	2	0	0	0
Technical Assistants, Library	7	7	0	0	0
Pharmacy Helpers	11	11	0	4	4
Medical Records Librarians	17	18	1	4	5
Dental Hygienists	1	1	0	0	0
Radiologic and/or Nuclear Medical Technologists	82	86	4	16	20
Electrocardiograph Technicians	26	27	1	4	5
All Other Medical & Dental Technicians & Technologists	34	36	2	20	22
All Other Technical Workers	162	169	7	12	19
TOTAL SERVICE WORKERS	1,032	1,061	29	141	170
All Other Janitors, Porters, & Cleaners	166	171	5	24	29
Guards & Doorkeepers	12	12	0	0	0
Bakers, Bread and/or Pastry	1	1	0	0	0
Butchers and/or Meat Cutters	38	39	1	4	5
Cooks, Institutional	55	57	2	8	10
All Other Food Service Workers	84	86	2	16	18
Barbers	1	1	0	0	0
Supervisors, Nonworking Service	1	1	0	0	0
Housekeepers	5	5	0	0	0
Nurse's Aides and/or Orderlies	329	338	9	73	82
Fish & Game Wardens	1	1	0	0	0
Social Service Aides	4	4	0	0	0
Occupational Therapy Assistants	1	1	0	0	0
Officers, Police	26	27	1	0	1
Detectives, Police	189	194	5	8	13
Correction Officers and/or Jailers	6	6	0	0	0
United States Marshalls	21	22	1	4	5
Fire Fighters	88	90	2	4	6
All Other Service Workers	4	4	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	2,057	2,102	45	138	183
Mechanics, Aircraft	324	331	7	12	19
Mechanics, Automotive	60	61	1	4	5
Body Repairers, Automotive	2	2	0	0	0
Camera Repairers and/or Motion Picture Camera Repairers	1	1	0	0	0
Electric Tool Repairers	7	7	0	0	0
Electromedical Equipment Repairers	7	7	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Gunsmiths	2	2	0	0	0
Mechanics, Engineering Equipment	38	39	1	4	5
Mechanics, Laundry Machine	1	1	0	0	0
Locksmiths	2	2	0	0	0
Mechanics, Maintenance	128	131	3	8	11
Mechanics, Refrigeration	63	64	1	4	5
Mechanics, Electronics	87	89	2	4	6
Mechanics, Data Processing	2	2	0	0	0
All Other Mechanics & Repairers	67	68	1	4	5
Developers and/or Projection Printers	1	1	0	0	0
Markers, Classifiers, and/or Assemblers	21	21	0	4	4
Washers, Machine and/or Starchers	4	4	0	0	0
Dry Cleaning Machine Operators	1	1	0	0	0
Truck Drivers	133	136	3	8	11
Cabinetmakers	12	12	0	0	0
Cable Splicers	12	12	0	0	0
Carpenters	30	31	1	4	5
Craters	8	8	0	0	0
Electricians	75	77	2	4	6
Exterminators	1	1	0	0	0
Supervisors, Nonworking	25	26	1	0	1
Heavy Equipment Operators	19	19	0	0	0
Industrial Truck Operators	49	50	1	4	5
Inspectors	1	1	0	0	0
Telephone Installers, Repairers, and/or Section Maintainers	1	1	0	0	0
Line Installers-Repairers	1	1	0	0	0
Machinists	12	12	0	0	0
Maintenance Repairers, General Utility	57	58	1	4	5
Painters, Maintenance	35	36	1	4	5
Electroplaters	1	1	0	0	0
Plumbers and/or Pipefitters	30	31	1	4	5
Rotary Drill Operators	24	25	1	4	5
Dental Laboratory Technicians	2	2	0	0	0
Sewage Plant Operators	6	6	0	0	0
Sewing Machine Operators, Regular Equipment	1	1	0	0	0
Sheet Metal Workers	36	37	1	0	1
Stationary Boiler Firers	8	8	0	0	0
Stationary Engineers	5	5	0	0	0
Stonemasons	4	4	0	0	0
Animal Caretakers	65	66	1	12	13
Tire Fabricators and/or Repairers	1	1	0	0	0
Tool & Die Makers	4	4	0	0	0
Water Treatment Plant Operators	5	5	0	0	0
Welders & Flamecutters	8	8	0	0	0
Offset Lithographic Press Operators	7	7	0	0	0
Fuel Pump Attendants and/or Lubricators	7	7	0	0	0
Stock Clerks, Sales Floor	67	68	1	4	5
Highway Maintenance Workers	1	1	0	0	0
Machine Tool Operators, Combination	1	1	0	0	0
Painters, Production	1	1	0	0	0
Loading Machine Operators	6	6	0	0	0
Dip Platers, Nonelectrolytic	1	1	0	0	0
Gardeners & Groundskeepers	7	7	0	0	0
All Other Skilled Craft Workers	4	4	0	0	0
All Other Operatives & Semiskilled Workers	35	36	1	4	5
All Other Laborers & Unskilled Workers	431	440	9	38	47
TOTAL OFFICE CLERICAL WORKERS	3,290	3,365	75	719	794
Computer Operators	14	14	0	0	0
Keypunch Operators	43	44	1	12	13
All Other Office Machine Operators	5	5	0	0	0
Stenographers	215	220	5	52	57
Accounting Clerks	165	169	4	36	40
Bookkeepers, Hand	20	20	0	4	4

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Cashiers	11	11	0	4	4
Claims Adjusters	44	45	1	4	5
Claims Clerks	138	141	3	32	35
General Clerks	818	837	19	183	202
Information Clerks	118	121	3	34	37
Mail Clerks	75	77	2	12	14
Payroll and/or Timekeeping Clerks	29	30	1	4	5
Personnel Clerks	119	122	3	36	39
Procurement Clerks	40	41	1	4	5
Real Estate Clerks	40	41	1	8	9
Receptionists	13	13	0	4	4
Secretaries	267	273	6	68	74
Statistical Clerks	11	11	0	4	4
Switchboard Operators	66	68	2	20	22
Travel Clerks	6	6	0	0	0
Typists	494	505	11	138	149
Clerical Supervisors	17	17	0	0	0
Postal Service Clerks	497	508	11	56	67
All Other Office Clerical Workers	25	26	1	4	5
TOTAL PLANT CLERICAL WORKERS	3,592	3,674	82	235	317
Production Clerks and/or Coordinators	14	14	0	0	0
Shipping and/or Receiving Clerks	8	8	0	0	0
Stock Clerks	39	40	1	0	1
Dispatchers, Vehicle, Service or Work	11	11	0	0	0
Postal Mail Carriers	3,399	3,477	78	207	285
All Other Plant Clerical Workers	121	124	3	28	31
TOTAL SALES WORKERS	55	57	2	4	6
Sales Clerks	55	57	2	4	6
TOTAL ALL OCCUPATIONS	14,650	15,075	425	1,761	2,186

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

MOHAVE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	24	36	12	6	18
Construction Inspectors	1	1	0	0	0
Postmasters and/or Mail Superintendents	7	11	4	2	6
All Other Managers & Officers	16	24	8	4	12
TOTAL PROFESSIONAL WORKERS	9	14	5	0	5
Electrical & Electronic Engineers	1	1	0	0	0
Geologists & Geophysicists	1	1	0	0	0
Biological Scientists	4	6	2	0	2
Teachers, Nonvocational Education	1	1	0	0	0
Purchasing Agents and/or Buyers	1	1	0	0	0
Landscape Architects	1	1	0	0	0
TOTAL TECHNICAL WORKERS	24	36	12	2	14
Electrical & Electronic Technicians	1	1	0	0	0
Surveyors	1	1	0	0	0
All Other Engineering Technicians	1	1	0	0	0
Biological Science Technicians	17	26	9	2	11
Air Traffic Controllers	1	1	0	0	0
Physician's Assistants	1	1	0	0	0
Medical Records Librarians	1	1	0	0	0
All Other Technical Workers	1	1	0	0	0
TOTAL SERVICE WORKERS	6	9	3	0	3
All Other Janitors, Porters, & Cleaners	1	1	0	0	0
Social Service Aides	1	1	0	0	0
Officers, Police	1	1	0	0	0
Detectives, Police	2	3	1	0	1
United States Marshalls	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	62	91	29	4	33
Mechanics, Hydroelectric Machinery, Powerhouse, and/or Gas Plant Repairers	4	6	2	0	2
Mechanics, Maintenance	4	6	2	0	2
Truck Drivers	3	4	1	0	1
Carpenters	2	3	1	0	1
Crane, Derrick, & Hoist Operators	1	1	0	0	0
Electricians	2	3	1	0	1
Supervisors, Nonworking	1	1	0	0	0
Heavy Equipment Operators	6	9	3	0	3
Maintenance Repairers, General Utility	6	9	3	0	3
Painters, Maintenance	1	1	0	0	0
Stationary Boiler Firers	1	1	0	0	0
Stationary Engineers	3	4	1	0	1
Water Treatment Plant Operators	1	1	0	0	0
All Other Operatives & Semiskilled Workers	1	1	0	0	0
All Other Laborers & Unskilled Workers	26	38	12	4	16
TOTAL OFFICE CLERICAL WORKERS	37	54	17	9	26
Stenographers	1	1	0	0	0
General Clerks	11	17	6	4	10
Real Estate Clerks	1	1	0	0	0
Secretaries	1	1	0	0	0
Typists	4	6	2	1	3
Postal Service Clerks	19	28	9	4	13
TOTAL PLANT CLERICAL WORKERS	15	22	7	0	7
Postal Mail Carriers	14	21	7	0	7
All Other Plant Clerical Workers	1	1	0	0	0
TOTAL ALL OCCUPATIONS	177	262	85	21	106

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

NAVAJO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	66	71	5	8	13
Construction Inspectors	3	3	0	0	0
Postmasters and/or Mail Superintendents	22	24	2	4	6
All Other Managers & Officers	41	44	3	4	7
TOTAL PROFESSIONAL WORKERS	811	896	85	90	175
Agricultural Engineers	1	1	0	0	0
Civil Engineers	3	3	0	0	0
Biological Scientists	9	10	1	0	1
Foresters & Conservation Scientists	34	38	4	0	4
Teachers, Nonvocational Education	644	712	68	70	138
Caseworkers	10	11	1	0	1
Dentists	5	6	1	0	1
Librarians, Professional	1	1	0	0	0
Nurses, Professional	51	56	5	12	17
Optometrists	1	1	0	0	0
Pharmacists	6	7	1	0	1
Physicians and/or Surgeons	21	23	2	4	6
Veterinarians	1	1	0	0	0
Group Recreation Workers	21	23	2	4	6
All Other Professional Workers	3	3	0	0	0
TOTAL TECHNICAL WORKERS	559	618	59	48	107
Electrical & Electronic Technicians	1	1	0	0	0
Surveyors	11	12	1	0	1
Broadcast Technicians	2	2	0	0	0
All Other Engineering Technicians	16	18	2	0	2
Physical Science Technicians	7	8	1	0	1
Biological Science Technicians	179	198	19	16	35
Dental Assistants	13	14	1	4	5
Physician's Assistants	7	8	1	0	1
Radio Operators	5	6	1	0	1
Pharmacy Helpers	1	1	0	0	0
Medical Records Librarians	6	7	1	0	1
Medical Laboratory Technologists	7	8	1	0	1
Radiologic and/or Nuclear Medical Technologists	3	3	0	0	0
All Other Medical & Dental Technicians & Technologists	8	9	1	4	5
All Other Technical Workers	293	324	31	24	55
TOTAL SERVICE WORKERS	325	353	28	47	75
All Other Janitors, Porters, & Cleaners	43	47	4	8	12
Guards & Doorkeepers	5	5	0	0	0
Cooks, Institutional	87	94	7	15	22
All Other Food Service Workers	46	50	4	8	12
Nurse's Aides and/or Orderlies	69	75	6	16	22
Forest Conservation Workers	42	46	4	0	4
Guides, Sightseeing or Establishment	1	1	0	0	0
Social Service Aides	3	3	0	0	0
Officers, Police	25	27	2	0	2
Detectives, Police	4	4	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	371	401	30	24	54
Mechanics, Automotive	8	9	1	0	1
Mechanics, Engineering Equipment	3	3	0	0	0
Mechanics, Maintenance	4	4	0	0	0
Truck Drivers	76	82	6	4	10
Carpenters	8	9	1	0	1
Electricians	3	3	0	0	0
Supervisors, Nonworking	15	16	1	0	1
Heavy Equipment Operators	41	44	3	4	7
Maintenance Repairers, General Utility	41	44	3	4	7

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

NAVAJO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Oilers	1	1	0	0	0
Painters, Maintenance	6	6	0	0	0
Plumbers and/or Pipefitters	2	2	0	0	0
Stationary Boiler Firers	8	9	1	0	1
Stationary Engineers	3	3	0	0	0
All Other Operatives & Semiskilled Workers	10	11	1	0	1
All Other Laborers & Unskilled Workers	142	153	11	12	23
TOTAL OFFICE CLERICAL WORKERS	210	229	19	49	68
Stenographers	4	4	0	0	0
Accounting Clerks	4	4	0	0	0
General Clerks	74	81	7	17	24
Personnel Clerks	1	1	0	0	0
Procurement Clerks	1	1	0	0	0
Real Estate Clerks	2	2	0	0	0
Receptionists	1	1	0	0	0
Secretaries	11	12	1	4	5
Typists	84	92	8	24	32
Postal Service Clerks	28	31	3	4	7
TOTAL PLANT CLERICAL WORKERS	37	40	3	4	7
Postal Mail Carriers	33	36	3	4	7
All Other Plant Clerical Workers	4	4	0	0	0
TOTAL ALL OCCUPATIONS	2,379	2,608	229	270	499

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	371	376	5	44	49
Public Administration Inspectors	113	114	1	12	13
Construction Inspectors	10	10	0	0	0
Postmasters and/or Mail Superintendents	15	15	0	4	4
All Other Managers & Officers	233	236	3	28	31
TOTAL PROFESSIONAL WORKERS	1,065	1,098	33	116	149
Aeronautical Engineers	2	2	0	0	0
Civil Engineers	18	19	1	0	1
Electrical & Electronic Engineers	3	3	0	0	0
Industrial Engineers	7	7	0	0	0
Mechanical Engineers	1	1	0	0	0
Mining Engineers	1	1	0	0	0
All Other Engineers	13	13	0	0	0
Mathematicians	2	2	0	0	0
Statisticians	2	2	0	0	0
All Other Mathematical Scientists	2	2	0	0	0
Chemists	2	2	0	0	0
Geologists & Geophysicists	30	31	1	0	1
Meteorologists	1	1	0	0	0
Physicists	2	2	0	0	0
All Other Physical Scientists	4	4	0	0	0
Agricultural Scientists	7	7	0	0	0
Biological Scientists	38	39	1	4	5
Foresters & Conservation Scientists	15	15	0	0	0
Economists	4	4	0	0	0
Psychologists	24	25	1	0	1
All Other Social Scientists	28	29	1	0	1
Systems Analysts, EDP	20	21	1	0	1
Teachers, Nonvocational Education	106	109	3	12	15
Photographers	5	5	0	0	0
Purchasing Agents and/or Buyers	29	30	1	4	5
Accountants & Auditors	26	27	1	4	5
Landscape Architects	2	2	0	0	0
Architects (Exclude Landscape Architects)	1	1	0	0	0
Caseworkers	20	21	1	4	5
Clergy	7	7	0	0	0
Commercial Artists	5	5	0	0	0
Dentists	4	4	0	0	0
Dietitions and/or Nutritionists	8	8	0	0	0
Writers and/or Editors	7	7	0	0	0
Law Clerks	15	15	0	0	0
Lawyers	19	20	1	0	1
Librarians, Professional	3	3	0	0	0
Curators, Museum	2	2	0	0	0
Nurses, Professional	178	184	6	40	46
Occupational Therapists	2	2	0	0	0
Paralegal Personnel	1	1	0	0	0
Personnel & Labor Relations Specialists	40	41	1	4	5
Pharmacists	17	18	1	4	5
Physical Therapists	3	3	0	0	0
Physicians and/or Surgeons	206	212	6	24	30
Podiatrists	1	1	0	0	0
Judges	2	2	0	0	0
Tax Examiners, Collectors, and/or Revenue Agents	52	54	2	8	10
Appraisers, Real Estate	3	3	0	0	0
Speech Pathologists and/or Audiologists	6	6	0	0	0
Corrective Therapists	2	2	0	0	0
All Other Professional Workers	67	69	2	8	10
TOTAL TECHNICAL WORKERS	617	635	18	64	82
Computer Programmers	10	10	0	0	0
Drafters	5	5	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Electrical & Electronic Technicians	43	44	1	0	1
Surveyors	10	10	0	0	0
Radiographers	4	4	0	0	0
Broadcast Technicians	5	5	0	0	0
All Other Engineering Technicians	26	27	1	4	5
Physical Science Technicians	16	16	0	0	0
Biological Science Technicians	122	126	4	12	16
Air Traffic Controllers	92	95	3	4	7
Dental Assistants	7	7	0	4	4
Mathematical Technicians	1	1	0	0	0
Physician's Assistants	7	7	0	0	0
Airplane Pilots	40	41	1	0	1
Technical Assistants, Library	4	4	0	0	0
Pharmacy Helpers	2	2	0	0	0
Medical Records Librarians	19	20	1	4	5
Medical Laboratory Technologists	47	48	1	8	9
Radiologic and/or Nuclear Medical Technologists	28	29	1	4	5
Electrocardiograph Technicians	27	28	1	4	5
All Other Medical & Dental Technicians & Technologists	25	26	1	12	13
All Other Technical Workers	77	79	2	8	10
TOTAL SERVICE WORKERS	527	535	8	61	69
All Other Janitors, Porters, & Cleaners	65	66	1	8	9
Guards & Doorkeepers	36	37	1	0	1
Bakers, Bread and/or Pastry	2	2	0	0	0
Butchers and/or Meat Cutters	25	25	0	0	0
Cooks, Institution	26	26	0	4	4
All Other Food Service Workers	73	74	1	12	13
Barbers	2	2	0	0	0
Housekeepers	1	1	0	0	0
Nurse's Aides and/or Orderlies	133	135	2	29	31
Social Service Aides	3	3	0	0	0
Occupational Therapy Assistants	1	1	0	0	0
Officers, Police	29	29	0	0	0
Detectives, Police	68	70	2	4	6
United States Marshalls	14	14	0	4	4
Fire Fighters	49	50	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	1,664	1,678	14	96	110
Mechanics, Aircraft	436	440	4	16	20
Mechanics, Automotive	44	44	0	4	4
Body Repairers, Automotive	3	3	0	0	0
Electric Tool Repairers	2	2	0	0	0
Electromedical Equipment Repairers	1	1	0	0	0
Mechanics, Engineering Equipment	25	25	0	0	0
Instrument Repairers, Optical	1	1	0	0	0
Locksmiths	1	1	0	0	0
Mechanics, Maintenance	37	37	0	4	4
Mechanics, Refrigeration	30	30	0	0	0
Mechanics, Electronics	74	75	1	4	5
Gas & Electric Appliance Repairers	3	3	0	0	0
All Other Mechanics & Repairers	70	71	1	4	5
Developers and/or Projection Printers	1	1	0	0	0
Laundry Markers, Classifiers, and/or Assemblers	3	3	0	0	0
Truck Drivers	75	76	1	4	5
Cabinetmakers	1	1	0	0	0
Cable Splicers	2	2	0	0	0
Carpenters	37	37	0	4	4
Crane, Derrick, & Hoist Operators	8	8	0	0	0
Craters	32	32	0	4	4

BEST AVAILABLE COPY

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Electricians	45	45	0	4	4
Exterminators	1	1	0	0	0
Supervisors, Nonworking	19	19	0	0	0
Heavy Equipment Operators	28	28	0	0	0
Riggers	2	2	0	0	0
Industrial Truck Operators	58	59	1	4	5
Inspectors	1	1	0	0	0
Locomotive Engineers	1	1	0	0	0
Machinists	5	5	0	0	0
Maintenance Repairers, General Utility	33	33	0	0	0
Oilers	2	2	0	0	0
Painters, Maintenance	40	40	0	4	4
Plasterers	2	2	0	0	0
Plumbers and/or Pipefitters	27	27	0	0	0
Rotary Drill Operators	1	1	0	0	0
Dental Laboratory Technicians	2	2	0	0	0
Sandblasters and/or Shotblasters	5	5	0	0	0
Sewing Machine Operators, Regular Equipment	2	2	0	0	0
Sheet Metal Workers	18	18	0	0	0
Stationary Boiler Firers	10	10	0	0	0
Stationary Engineers	3	3	0	0	0
Stonemasons	5	5	0	0	0
Welders & Flamecutters	7	7	0	0	0
Offset Lithographic Press Operators	4	4	0	0	0
Camera Operators, Printing	1	1	0	0	0
Fuel Pump Attendants and/or Lubricators	5	5	0	0	0
Stock Clerks, Sales Floor	39	39	0	4	4
Highway Maintenance Workers	3	3	0	0	0
Dip Platers	1	1	0	0	0
Upholsterers	1	1	0	0	0
Gardeners & Groundskeepers	6	6	0	0	0
All Other Skilled Craft Workers	1	1	0	0	0
All Other Operatives & Semiskilled Workers	61	61	0	8	8
All Other Laborers & Unskilled Workers	339	342	3	28	31
TOTAL OFFICE CLERICAL WORKERS	1,080	1,089	9	224	233
Computer Operators	13	13	0	0	0
Keypunch Operators	20	20	0	4	4
All Other Office Machine Operators	2	2	0	0	0
Stenographers	57	58	1	12	13
Accounting Clerks	59	59	0	12	12
Bookkeepers, Hand	5	5	0	0	0
Cashiers	4	4	0	0	0
Claims Clerks	22	22	0	4	4
Correspondence Clerks	1	1	0	0	0
General Clerks	334	337	3	76	79
Information Clerks	18	18	0	4	4
Mail Clerks	22	22	0	4	4
Payroll and/or Timekeeping Clerks	21	21	0	4	4
Personnel Clerks	31	31	0	8	8
Procurement Clerks	11	11	0	0	0
Real Estate Clerks	3	3	0	0	0
Receptionists	4	4	0	0	0
Secretaries	97	98	1	24	25
Statistical Clerks	7	7	0	0	0
Switchboard Operators	13	13	0	4	4
Travel Clerks	3	3	0	0	0
Typists	172	174	2	48	50
Clerical Supervisors	3	3	0	0	0
Postal Service Clerks	132	133	1	16	17
All Other Office Clerical Workers	26	26	0	4	4

BEST AVAILABLE COPY

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL PLANT CLERICAL WORKERS	963	971	8	76	84
Production Clerks and/or Coordinators	29	29	0	4	4
Shipping Packers	12	12	0	0	0
Stock Clerks	39	39	0	4	4
Dispatchers, Vehicle, Service or Work	3	3	0	0	0
Postal Mail Carriers	782	788	6	48	54
All Other Plant Clerical Workers	98	99	1	20	21
TOTAL SALES WORKERS	42	42	0	4	4
Sales Clerks	42	42	0	4	4
TOTAL ALL OCCUPATIONS	6,329	6,424	95	685	780

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

PINAL COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	51	59	8	8	16
Public Administration Inspectors	8	9	1	0	1
Construction Inspectors	3	3	0	0	0
Postmasters and/or Mail Superintendents	15	17	2	4	6
All Other Managers & Officers	25	29	4	4	8
TOTAL PROFESSIONAL WORKERS	61	71	10	8	18
Agricultural Engineers	1	1	0	0	0
Civil Engineers	4	5	1	0	1
Electrical & Electronic Engineers	2	2	0	0	0
All Other Engineers	1	1	0	0	0
Agricultural Scientists	1	1	0	0	0
Biological Scientists	1	1	0	0	0
Foresters & Conservation Scientists	3	3	0	0	0
All Other Social Scientists	1	1	0	0	0
Teachers, Nonvocational Education	19	21	2	4	6
Caseworkers	5	6	1	0	1
Nurses, Professional	14	16	2	4	6
Pharmacists	2	2	0	0	0
Physicians and/or Surgeons	4	5	1	0	1
All Other Professional Workers	3	3	0	0	0
TOTAL TECHNICAL WORKERS	58	68	10	0	10
Surveyors	19	22	3	0	3
All Other Engineering Technicians	1	1	0	0	0
Physical Science Technicians	2	2	0	0	0
Biological Science Technicians	10	12	2	0	2
Dental Assistants	2	2	0	0	0
Physician's Assistants	1	1	0	0	0
Technical Assistants, Library	1	1	0	0	0
Medical Records Librarians	2	2	0	0	0
Medical Laboratory Technologists	3	4	1	0	1
All Other Medical & Dental Technicians & Technologists	1	1	0	0	0
All Other Technical Workers	16	19	3	0	3
TOTAL SERVICE WORKERS	61	70	9	8	17
All Other Janitors, Porters, & Cleaners	5	6	1	0	1
Kitchen Helpers	1	1	0	0	0
Cooks, Institution	5	6	1	0	1
All Other Food Service Workers	2	2	0	0	0
Supervisors, Nonworking Service	1	1	0	0	0
Nurse's Aides and/or Orderlies	12	14	2	4	6
Officers, Police	9	10	1	0	1
Detectives, Police	4	5	1	0	1
Correction Officers and/or Jailers	21	24	3	4	7
All Other Service Workers	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	142	162	20	4	24
Mechanics, Automotive	4	5	1	0	1
Electrical Instrument Repairers	1	1	0	0	0
Mechanics, Engineering Equipment	5	6	1	0	1
Mechanics, Maintenance	14	16	2	0	2
Truck Drivers	7	8	1	0	1
Carpenters	2	2	0	0	0
Crane, Derrick, & Hoist Operators	2	2	0	0	0
Electricians	13	15	2	0	2
Supervisors, Nonworking	5	6	1	0	1
Heavy Equipment Operators	14	16	2	0	2
Line Installers-Repairers	26	30	4	0	4
Machinists	3	3	0	0	0
Maintenance Repairers, General Utility	4	5	1	0	1
Oilers	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

PINAL COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Painters, Maintenance	1	1	0	0	0
Plumbers and/or Pipefitters	3	3	0	0	0
Rotary Drill Operators	5	6	1	0	1
Substation Operators	4	5	1	0	1
Welders & Flamecutters	1	1	0	0	0
Fuel Pump Attendants and/or Lubricators	1	1	0	0	0
All Other Skilled Craft Workers	4	5	1	0	1
All Other Laborers & Unskilled Workers	22	25	3	4	7
TOTAL OFFICE CLERICAL WORKERS	117	134	17	20	37
All Other Office Machine Operators	2	2	0	0	0
Accounting Clerks	8	9	1	0	1
Bookkeepers, Hand	1	1	0	0	0
Cashiers	4	5	1	0	1
Claims Clerks	5	6	1	0	1
General Clerks	29	33	4	8	12
Payroll and/or Timekeeping Clerks	1	1	0	0	0
Procurement Clerks	1	1	0	0	0
Real Estate Clerks	3	3	0	0	0
Secretaries	5	6	1	0	1
Statistical Clerks	1	1	0	0	0
Typists	27	31	4	8	12
Postal Service Clerks	30	34	4	4	8
TOTAL PLANT CLERICAL WORKERS	67	76	9	4	13
Postal Mail Carriers	64	73	9	4	13
All Other Plant Clerical Workers	3	3	0	0	0
TOTAL ALL OCCUPATIONS	557	640	83	52	135

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

SANTA CRUZ COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	193	216	23	20	43
Public Administration Inspectors	177	198	21	20	41
Postmasters & Mail Superintendents	6	7	1	0	1
All Other Managers & Officers	10	11	1	0	1
TOTAL PROFESSIONAL WORKERS	25	28	3	0	3
Biological Scientists	14	16	2	0	2
Foresters & Conservation Scientists	2	2	0	0	0
Economists	1	1	0	0	0
Lawyers	5	6	1	0	1
Paralegal Personnel	1	1	0	0	0
Physicians and/or Surgeons	1	1	0	0	0
Veterinarians	1	1	0	0	0
TOTAL TECHNICAL WORKERS	34	39	5	4	9
Electrical & Electronic Technicians	1	1	0	0	0
Biological Science Technicians	27	31	4	4	8
All Other Technical Workers	6	7	1	0	1
TOTAL SERVICE WORKERS	36	40	4	0	4
All Other Janitors, Porters, & Cleaners	12	13	1	0	1
Fish & Game Wardens	1	1	0	0	0
Detectives, Police	22	24	2	0	2
United States Marshalls	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	16	18	2	0	2
Mechanics, Refrigeration	1	1	0	0	0
Electricians	1	1	0	0	0
Heavy Equipment Operators	3	3	0	0	0
Maintenance Repairers, General Utility	4	5	1	0	1
Plumbers and/or Pipefitters	1	1	0	0	0
Stationary Boiler Firers	1	1	0	0	0
Fuel Pump Attendants and/or Lubricators	1	1	0	0	0
All Other Laborers & Unskilled Workers	4	5	1	0	1
TOTAL OFFICE CLERICAL WORKERS	70	78	8	16	24
Stenographers	1	1	0	0	0
Cashiers	3	3	0	0	0
Claims Clerks	2	2	0	0	0
General Clerks	20	22	2	4	6
Information Clerks	1	1	0	0	0
Secretaries	3	3	0	0	0
Typists	9	10	1	4	5
Clerical Supervisors	1	1	0	0	0
Postal Service Clerks	18	20	2	4	6
All Other Office Clerical Workers	12	13	1	4	5
TOTAL PLANT CLERICAL WORKERS	13	15	2	0	2
Postal Mail Carriers	13	15	2	0	2
TOTAL ALL OCCUPATIONS	387	434	47	40	87

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

YAVAPAI COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGER & OFFICERS	45	49	4	8	12
Construction Inspectors	1	1	0	0	0
Postmasters and/or Mail Superintendents	16	18	2	4	6
All Other Managers & Officers	28	30	2	4	6
TOTAL PROFESSIONAL WORKERS	179	202	23	22	45
Agricultural Engineers	1	1	0	0	0
Civil Engineers	2	2	0	0	0
All Other Engineers	2	2	0	0	0
Chemists	2	2	0	0	0
Agricultural Scientists	1	1	0	0	0
Biological Scientists	2	2	0	0	0
Foresters & Conservation Scientists	26	29	3	0	3
Psychologists	4	5	1	0	1
Teachers, Nonvocational Education	1	1	0	0	0
Purchasing Agents and/or Buyers	5	6	1	0	1
Accountants & Auditors	2	2	0	0	0
Landscape Architects	1	1	0	0	0
Caseworkers	10	11	1	0	1
Clergy	2	2	0	0	0
Dentists	3	3	0	0	0
Dietitions and/or Nutritionists	3	3	0	0	0
Librarians, Professional	2	2	0	0	0
Nurses, Professional	74	84	10	18	28
Occupational Therapists	2	2	0	0	0
Personnel & Labor Relations Specialists	3	3	0	0	0
Pharmacists	3	3	0	0	0
Physical Therapists	4	5	1	0	1
Physicians and/or Surgeons	20	23	3	4	7
Tax Examiners, Collectors, and/or Revenue Agents	2	2	0	0	0
Group Recreation Workers	1	1	0	0	0
Manual-Arts, Music, and/or Recreational Therapists	1	1	0	0	0
TOTAL TECHNICAL WORKERS	217	245	28	16	44
Drafters	1	1	0	0	0
Electrical & Electronic Technicians	7	8	1	0	1
Surveyors	1	1	0	0	0
All Other Engineering Technicians	4	5	1	0	1
Biological Science Technicians	161	181	20	16	36
Air Traffic Controllers	14	16	2	0	2
Dental Assistants	3	3	0	0	0
Pharmacy Helpers	2	2	0	0	0
Medical Records Librarians	4	5	1	0	1
Medical Laboratory Technologists	8	9	1	0	1
Radiologic and/or Nuclear Medical Technologists	5	6	1	0	1
Electrocardiograph Technicians	5	6	1	0	1
All Other Medical & Dental Technicians & Technologists	1	1	0	0	0
All Other Technical Workers	1	1	0	0	0
TOTAL SERVICE WORKERS	170	189	19	31	50
All Other Janitors, Porters, & Cleaners	33	37	4	4	8
Cooks, Institution	10	11	1	0	1
All Other Food Service Workers	50	56	6	11	17
Barbers	2	2	0	0	0
Housekeepers	1	1	0	0	0
Nurse's Aides and/or Orderlies	63	70	7	16	23
Officers, Police	9	10	1	0	1
Detectives, Police	1	1	0	0	0
United States Marshalls	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

YAVAPAI COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MAINTENANCE & PRODUCTION WORKERS	76	83	7	4	11
Mechanics, Automotive	1	1	0	0	0
Electromedical Equipment Repairers	2	2	0	0	0
Mechanics, Maintenance	1	1	0	0	0
Mechanics, Refrigeration	1	1	0	0	0
Laundry Markers, Classifiers, and/or Assemblers	2	2	0	0	0
Dry Cleaning Machine Operators	1	1	0	0	0
Truck Drivers	5	6	1	0	1
Carpenters	2	2	0	0	0
Electricians	5	6	1	0	1
Supervisors, Nonworking	2	2	0	0	0
Heavy Equipment Operators	4	4	0	0	0
Industrial Truck Operators	1	1	0	0	0
Maintenance Repairers, General Utility	4	4	0	0	0
Painters, Maintenance	3	3	0	0	0
Plumbers and/or Pipefitters	3	3	0	0	0
Dental Laboratory Technicians	1	1	0	0	0
Sewing Machine Operators, Regular Equipment	1	1	0	0	0
Stationary Boiler Firers	7	8	1	0	1
Stonemasons	1	1	0	0	0
Welders & Flamecutters	1	1	0	0	0
All Other Laborers & Unskilled Workers	28	31	3	4	7
TOTAL OFFICE CLERICAL WORKERS	151	167	16	32	48
Stenographers	11	12	1	4	5
Accounting Clerks	4	4	0	0	0
Bookkeepers, Hand	3	3	0	0	0
Cashiers	1	1	0	0	0
Claims Clerks	5	6	1	0	1
General Clerks	49	54	5	12	17
Information Clerks	2	2	0	0	0
Mail Clerks	3	3	0	0	0
Payroll and/or Timekeeping Clerks	2	2	0	0	0
Personnel Clerks	5	6	1	0	1
Secretaries	13	14	1	4	5
Switchboard Operators	2	2	0	0	0
Travel Clerks	1	1	0	0	0
Typists	24	27	3	8	11
Clerical Supervisors	1	1	0	0	0
Postal Service Clerks	25	28	3	4	7
TOTAL PLANT CLERICAL WORKERS	58	63	5	4	9
Production Clerks and/or Coordinators	1	1	0	0	0
Postal Mail Carriers	53	58	5	4	9
All Other Plant Clerical Workers	4	4	0	0	0
TOTAL SALES WORKERS	6	6	0	0	0
Sales Clerks	6	6	0	0	0
TOTAL ALL OCCUPATIONS	902	1,004	102	117	219

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

YUMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	280	317	37	36	73
Public Administration Inspectors	151	171	20	16	36
Construction Inspectors	23	26	3	4	7
Postmasters and/or Mail Superintendents	13	15	2	4	6
All Other Managers & Officers	93	105	12	12	24
TOTAL PROFESSIONAL WORKERS	287	330	43	17	60
Agricultural Engineers	1	1	0	0	0
Chemical Engineers	1	1	0	0	0
Civil Engineers	28	32	4	4	8
Electrical & Electronic Engineers	10	12	2	0	2
Mechanical Engineers	32	37	5	0	5
Mining Engineers	1	1	0	0	0
All Other Engineers	28	32	4	0	4
Mathematicians	21	24	3	4	7
All Other Mathematical Scientists	1	1	0	0	0
Chemists	3	3	0	0	0
Geologists & Geophysicists	8	9	1	0	1
Meteorologists	2	2	0	0	0
Agricultural Scientists	6	7	1	0	1
Biological Scientists	8	9	1	0	1
Foresters & Conservation Scientists	6	7	1	0	1
Psychologists	1	1	0	0	0
All Other Social Scientists	1	1	0	0	0
Systems Analysts, EDP	8	9	1	0	1
Teachers, Nonvocational Education	5	6	1	0	1
Photographers	18	21	3	0	3
Purchasing Agents and/or Buyers	20	23	3	4	7
Accountants & Auditors	10	12	2	0	2
Architects (Exclude Landscape Architects)	2	2	0	0	0
Caseworkers	6	7	1	0	1
Dentists	1	1	0	0	0
Writers and/or Editors	2	2	0	0	0
Law Clerks	2	2	0	0	0
Lawyers	1	1	0	0	0
Librarians, Professional	1	1	0	0	0
Nurses, Professional	13	15	2	4	6
Personnel & Labor Relations Specialists	11	13	2	0	2
Pharmacists	2	2	0	0	0
Physicians and/or Surgeons	5	6	1	0	1
Public Relations Practitioners	1	1	0	0	0
Tax Examiners, Collectors, and/or Revenue Agents	4	5	1	0	1
Appraisers, Real Estate	2	2	0	0	0
Group Recreation Workers	4	5	1	0	1
All Other Professional Workers	11	13	2	1	3
TOTAL TECHNICAL WORKERS	279	320	41	20	61
Computer Programmers	3	3	0	0	0
Drafters	6	7	1	0	1
Electrical & Electronic Technicians	56	64	8	4	12
Surveyors	23	26	3	0	3
Broadcast Technicians	8	9	1	0	1
All Other Engineering Technicians	74	85	11	8	19
Physical Science Technicians	10	12	2	0	2
Biological Science Technicians	34	39	5	4	9
Air Traffic Controllers	8	9	1	0	1
Dental Assistants	1	1	0	0	0
Mathematical Technicians	17	19	2	0	2
Physician's Assistants	1	1	0	0	0
Airplane Pilots	3	3	0	0	0
Technical Assistants, Library	2	2	0	0	0
Pharmacy Helpers	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

YUMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Medical Records Librarians	1	1	0	0	0
Medical Laboratory Technologists	2	2	0	0	0
All Other Technical Workers	29	33	4	4	8
TOTAL SERVICE WORKERS	116	131	15	0	15
All Other Janitors, Porters, & Cleaners	8	9	1	0	1
Guards & Doorkeepers	11	12	1	0	1
Butchers and/or Meat Cutters	8	9	1	0	1
Waiters/Waitresses	1	1	0	0	0
Cooks, Institution	4	5	1	0	1
Nurse's Aides and/or Orderlies	8	9	1	0	1
Fish & Game Wardens	1	1	0	0	0
Social Service Aides	2	2	0	0	0
Officers, Police	3	3	0	0	0
Detectives, Police	30	34	4	0	4
Fire Fighters	37	42	5	0	5
All Other Service Workers	3	3	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	630	708	78	24	102
Mechanics, Aircraft	1	1	0	0	0
Mechanics, Automotive	26	29	3	0	3
Body Repairers, Automotive	2	2	0	0	0
Mechanics, Diesel	3	3	0	0	0
Electric Tool Repairers	1	1	0	0	0
Gunsmiths	1	1	0	0	0
Mechanics, Engineering Equipment	26	29	3	0	3
Mechanics, Hydroelectric Machinery, Powerhouse, and/or Gas Plant Repairers	4	5	1	0	1
Locksmiths	1	1	0	0	0
Mechanics, Maintenance	29	33	4	3	7
Mechanics, Refrigeration	26	29	3	0	3
Mechanics, Treatment Plant	3	3	0	0	0
Mechanics, Electronics	37	42	5	0	5
All Other Mechanics & Repairers	15	17	2	0	2
Truck Drivers	34	38	4	0	4
Air Hammer Operators	1	1	0	0	0
Cable Splicers	8	9	1	0	1
Carpenters	18	20	2	1	3
Crane, Derrick, & Hoist Operators	11	12	1	0	1
Craters	3	3	0	0	0
Drillers, Machine	1	1	0	0	0
Electricians	21	24	3	0	3
Exterminators	3	3	0	0	0
Supervisors, Nonworking	6	7	1	0	1
Heavy Equipment Operators	21	24	3	0	3
Industrial Truck Operators	18	20	2	0	2
Inspectors	2	2	0	0	0
Telephone Installers, Repairers, and/or Section Maintainers	14	16	2	0	2
Instrument Repairers	11	12	1	0	1
Line Installers-Repairers	16	18	2	0	2
Machinists	6	7	1	0	1
Maintenance Repairers, General Utility	33	37	4	4	8
Painters, Maintenance	5	6	1	0	1
Plumbers and/or Pipefitters	8	9	1	0	1
Production Packagers, Hand or Machine	2	2	0	0	0
Rotary Drill Operators	4	5	1	0	1
Sewage Plant Operators	1	1	0	0	0
Sheet Metal Workers	2	2	0	0	0
Stationary Engineers	3	3	0	0	0
Water Treatment Plant Operators	1	1	0	0	0
Welders & Flamecutters	8	9	1	0	1
Offset Lithographic Press Operators	3	3	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
FEDERAL GOVERNMENT

YUMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Camera Operators, Printing	1	1	0	0	0
Fuel Pump Attendants and/or Lubricators	3	3	0	0	0
Stock Clerks, Sales Floor	17	19	2	0	2
Highway Maintenance Workers	1	1	0	0	0
Saw Filers	1	1	0	0	0
Testers	39	44	5	4	9
Loading Machine Operators	18	20	2	4	6
Gardeners & Groundskeepers	1	1	0	0	0
All Other Skilled Craft Workers	3	3	0	0	0
All Other Operatives & Semiskilled Workers	14	16	2	0	2
All Other Laborers & Unskilled Workers	93	105	12	8	20
TOTAL OFFICE CLERICAL WORKERS	398	448	50	81	131
Computer Operators	5	6	1	0	1
Keypunch Operators	8	9	1	0	1
All Other Office Machine Operators	1	1	0	0	0
Stenographers	18	20	2	4	6
Accounting Clerks	41	46	5	8	13
Bookkeepers, Hand	4	5	1	0	1
Cashiers	2	2	0	0	0
Claims Clerks	6	7	1	0	1
General Clerks	88	99	11	21	32
Information Clerks	1	1	0	0	0
Mail Clerks	7	8	1	0	1
Payroll and/or Timekeeping Clerks	8	9	1	0	1
Personnel Clerks	10	11	1	4	5
Procurement Clerks	3	3	0	0	0
Real Estate Clerks	12	14	2	4	6
Receptionists	1	1	0	0	0
Secretaries	19	21	2	4	6
Switchboard Operators	6	7	1	0	1
Messengers	3	3	0	0	0
Travel Clerks	2	2	0	0	0
Typists	106	119	13	32	45
Clerical Supervisors	1	1	0	0	0
Postal Service Clerks	39	44	5	4	9
All Other Office Clerical Workers	7	8	1	0	1
TOTAL PLANT CLERICAL WORKERS	135	151	16	16	32
Production Clerks and/or Coordinators	3	3	0	0	0
Shipping Packers	2	2	0	0	0
Shipping & Receiving Clerks	5	6	1	0	1
Stock Clerks	5	6	1	0	1
Dispatchers, Vehicle Service or Work	3	3	0	0	0
Postal Mail Carriers	73	81	8	4	12
All Other Plant Clerical Workers	44	50	6	12	18
TOTAL SALES WORKERS	8	9	1	0	1
Sales Clerks	8	9	1	0	1
TOTAL ALL OCCUPATIONS	2,133	2,414	281	194	475

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	2,213	6.0	2,572	5.9	647
Public Administration Inspectors	191	0.5	222		53
Construction Inspectors	387	1.0	450		115
Chief Executives & Legislators	482	1.3	560		145
All Other Managers & Officers	1,153	3.1	1,340		334
TOTAL PROFESSIONAL WORKERS	5,123	13.7	6,002	13.8	1,669
Chemical Engineers	1	0.0	1		0
Civil Engineers	229	0.6	268		64
Electrical & Electronic Engineers	7	0.0	8		1
Industrial Engineers	15	0.0	18		3
Mechanical Engineers	4	0.0	5		1
Safety Engineers	5	0.0	6		1
Traffic Engineers	17	0.0	20		4
All Other Engineers	20	0.1	23		3
Chemists	16	0.0	19		3
All Other Physical Scientists	4	0.0	5		1
Agricultural Scientists	4	0.0	5		1
Biological Scientists	4	0.0	5		1
All Other Life Scientists	2	0.0	2		0
Economists	17	0.0	20		3
Psychologists	20	0.1	23		3
Urban & Regional Planners	147	0.4	172		29
All Other Social Scientists	9	0.0	11		2
Systems Analysts, EDP	122	0.3	143		25
Photographers	23	0.1	27		8
Purchasing Agents &/or Buyers	69	0.2	81		20
Accountants & Auditors	310	0.8	363		99
Landscape Architects	44	0.1	52		12
Architects (Exclude Landscape Architects)	9	0.0	11		2
Budget Analysts	30	0.1	35		9
Caseworkers	484	1.3	567		181
Commercial Artists	13	0.0	15		6
Dietitions &/or Nutritionists	40	0.1	47		17
Law Clerks	57	0.2	67		14
Lawyers	431	1.2	505		112
Librarians, Professional	249	0.7	292		107
Nurses, Professional	378	1.0	443		156
Occupational Therapists	2	0.0	2		0
Paralegal Personnel	45	0.1	53		12
Personnel & Labor Relations Specialists	110	0.3	129		32
Physical Therapists	4	0.0	5		1
Physicians &/or Surgeons	13	0.0	15		3
Public Relations Practitioners	27	0.1	32		9
Veterinarians	1	0.0	1		0
Community Organization Workers	52	0.1	61		20
Welfare Investigators	4	0.0	5		1
Judges	74	0.2	87		32
Magistrates	149	0.4	175		63
Tax Examiners, Collectors, &/or Revenue Agents	47	0.1	55		16
Assessors	154	0.4	180		69
All Other Therapists	1	0.0	1		0
Group Recreation Workers	1,044	2.8	1,223		332
Manual Arts, Music, &/or Recreational Therapists	5	0.0	6		1
Speech Pathologists &/or Audiologists	3	0.0	4		1
All Other Professional Workers	608	1.6	712		196
TOTAL TECHNICAL WORKERS	1,211	3.3	1,419	3.3	361
Computer Programmers	90	0.2	105		19
Drafters	204	0.5	239		50
Electrical & Electronic Technicians	41	0.1	48		8
Surveyors	70	0.2	82		16

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Traffic Technicians	24	0.1	28		8
Civil Engineering Technicians	192	0.5	225		49
All Other Engineering Technicians	67	0.2	79		17
Science Technicians	19	0.1	22		3
Licensed Practical Nurses	108	0.3	127		50
Physician's Assistants	5	0.0	6		1
Radio Operators	10	0.0	12		2
Technical Assistants, Library	178	0.5	209		79
Medical & Dental Technicians & Technologists	60	0.2	70		23
All Other Technical Workers	143	0.4	168		37
TOTAL SERVICE WORKERS	9,827	26.4	11,464	26.4	2,469
Janitors, Porters, & Cleaners	531	1.4	619		173
Guards & Doorkeepers	70	0.2	82		16
Kitchen Helpers	43	0.1	50		15
Cooks, Institution	58	0.2	68		21
All Other Food Service Workers	5	0.0	6		1
Supervisors, Nonworking Service	117	0.3	136		27
Nurse's Aides &/or Orderlies	195	0.5	227		80
Recreation Facility Attendants	565	1.5	659		176
Ushers, Lobby Attendants, Ticket Takers, &/or Drive-In Theater Attendants	22	0.1	26		8
Forest Conservation Workers	2	0.0	2		0
Fish & Game Wardens	2	0.0	2		0
Child-Care Workers	55	0.1	64		27
Social Service Aides	186	0.5	217		69
Officers, Police	859	2.3	1,002		181
Detectives, Police	713	1.9	832		150
Police Patrolmen/women	2,648	7.1	3,089		555
Parking Enforcement Officers	70	0.2	82		16
Correction Officers &/or Jailers	315	0.8	367		112
Sheriffs	616	1.7	719		140
Bailiffs	82	0.2	96		18
Fire Inspectors	52	0.1	61		13
Fire Fighters	1,523	4.1	1,777		318
Officers, Fire	442	1.2	516		93
All Other Service Workers	656	1.8	765		260
TOTAL MAINTENANCE & PRODUCTION WORKERS	10,845	29.1	12,572	29.0	2,660
Mechanics, Automotive	372	1.0	431		83
Mechanics, Automotive, Apprentice	7	0.0	8		1
Mechanics, Diesel	126	0.3	146		28
Electric Meter Installers	7	0.0	8		1
Electric Meter Installers, Apprentice	1	0.0	1		0
Gas Meter Installers	57	0.2	66		13
Mechanics, Engineering Equipment	140	0.4	162		30
Mechanics, Engineering Equipment, Apprentice	4	0.0	5		1
Mechanics, Hydroelectric Machinery, Powerhouse, &/or Gas Plant Repairers	13	0.0	15		2
Mechanics, Maintenance	84	0.2	97		19
Mechanics, Radio	52	0.2	60		12
Mechanics, Radio, Apprentice	5	0.0	6		1
Mechanics, Treatment Plant	88	0.2	102		21
Water Meter Installers	228	0.6	264		45
All Other Mechanics & Repairers	66	0.2	77		15
Truck Drivers	444	1.2	515		95
Bricklayers	2	0.0	2		0
Bus Drivers	58	0.2	67		17
Carpenters	53	0.2	61		12
Carpenters, Apprentice	11	0.0	13		2
Cement Masons	18	0.0	21		3

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Compositors &/or Typesetters	3	0.0	3		0
Crane, Derrick, & Hoist Operators	3	0.0	3		0
Electricians	81	0.2	94		19
Electricians, Apprentice	8	0.0	9		1
Supervisors, Nonworking	329	0.9	381		78
Heavy Equipment Operators	829	2.2	961		188
Heavy Equipment Operators, Apprentice	11	0.0	13		2
Industrial Truck Operators	31	0.1	36		9
Instrument Repairers	101	0.3	117		24
Line Installers-Repairers	35	0.1	41		6
Line Installers-Repairers, Apprentice	9	0.0	10		1
Machinists	2	0.0	2		0
Maintenance Repairers, General Utility	522	1.4	605		121
Helpers, Trades	160	0.4	185		41
Painters, Maintenance	58	0.2	67		17
Pipelayers	4	0.0	5		[illegible]
Plumbers &/or Pipefitters	71	0.2	82		15
Press Operators &/or Plate Printers	25	0.1	29		4
Press Operators &/or Plate Printers, Apprentice	1	0.0	1		0
Refuse Collectors	914	2.5	1,060		190
Sewage Plant Operators	217	0.6	252		46
Stationary Engineers	66	0.2	77		19
Stationary Engineers, Apprentice	4	0.0	5		1
Streetlight Repairers & Servicers	7	0.0	8		1
Animal Caretakers	114	0.3	132		40
Watershed Tenders	46	0.1	53		11
Water Treatment Plant Operators	100	0.3	116		24
Pump Station Operators, Waterworks	35	0.1	41		10
Welders & Flamecutters	50	0.1	58		12
Fuel Pump Attendants &/or Lubricators	127	0.3	147		32
Highway Maintenance Workers	879	2.4	1,019		224
Surveyor Helpers	80	0.2	93		21
Gardeners & Groundskeepers	842	2.3	976		270
Bus Drivers, School	20	0.1	23		7
Ambulance Drivers &/or Attendants	48	0.1	56		12
All Other Skilled Craft Workers	473	1.3	548		109
All Other Operatives & Semiskilled Workers	768	2.1	890		206
All Other Laborers & Unskilled Workers	1,936	5.2	2,244		494
TOTAL OFFICE CLERICAL WORKERS	7,110	19.1	8,258	19.0	2,995
Bookkeeping &/or Billing Machine Operators	20	0.1	23		7
Computer Operators	121	0.3	141		34
Keypunch Operators	184	0.5	214		80
Duplicating Machine Operators	34	0.1	39		13
All Other Office Machine Operators	46	0.1	53		21
Stenographers	147	0.4	171		62
Accounting Clerks	696	1.9	808		276
Bookkeepers, Hand	68	0.2	79		27
Cashiers	142	0.4	165		57
File Clerks	434	1.2	504		207
General Clerks	865	2.3	1,005		356
Library Assistants	265	0.7	308		116
Mail Clerks	44	0.1	51		15
Payroll &/or Timekeeping Clerks	44	0.1	51		15
Personnel Clerks	67	0.2	78		32
Procurement Clerks	16	0.0	19		3
Receptionists	39	0.1	45		18
Secretaries	962	2.6	1,117		425
Statistical Clerks	20	0.1	23		7
Switchboard Operators	55	0.1	64		26
Switchboard Operators/Receptionists	35	0.1	41		18
Messengers	16	0.0	19		6

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Typists	1,344	3.6	1,561		629
Clerical Supervisors	286	0.8	332		81
Eligibility Workers, Welfare	21	0.1	24		7
Court Clerks	309	0.8	359		126
Town Clerks	71	0.2	82		19
License Clerks	109	0.3	127		45
All Other Office Clerical Workers	650	1.7	755		267
TOTAL PLANT CLERICAL WORKERS	913	2.5	1,060	2.4	249
Meter Readers, Utilities	137	0.4	159		30
Production Clerks &/or Coordinators	8	0.0	9		1
Weighers, Record-Keeping	10	0.0	12		2
Stock Clerks	147	0.4	171		40
Dispatchers, Vehicle, Service or Work	42	0.1	49		11
Dispatchers, Police, Fire, & Ambulance	558	1.5	648		160
All Other Plant Clerical Workers	11	0.0	13		6
TOTAL SALES WORKERS	17	0.0	20	0.0	5
Sales Representatives	17	0.0	20		5
TOTAL ALL OCCUPATIONS	37,259	100.0	43,367	100.0	11,055

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

APACHE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	29	39	10	4	14
Public Administration Inspectors	1	1	0	0	0
Construction Inspectors	2	3	1	0	1
Chief Executives & Legislators	8	11	3	0	3
All Other Managers & Officers	18	24	6	4	10
TOTAL PROFESSIONAL WORKERS	20	27	7	1	8
Accountants & Auditors	1	1	0	0	0
Caseworkers	2	3	1	0	1
Dietitions &/or Nutritionists	2	3	1	0	1
Lawyers	3	4	1	0	1
Librarians, Professional	3	4	1	0	1
Nurses, Professional	2	3	1	0	1
Judges	1	1	0	0	0
Magistrates	5	7	2	1	3
Assessors	1	1	0	0	0
TOTAL SERVICE WORKERS	44	60	16	0	16
Janitors, Porters, & Cleaners	3	4	1	0	1
Kitchen Helpers	2	3	1	0	1
Supervisors, Nonworking Service	1	1	0	0	0
Officers, Police	2	3	1	0	1
Detectives, Police	1	1	0	0	0
Police Patrolmen/women	7	10	3	0	3
Correction Officers &/or Jailers	4	5	1	0	1
Sheriffs	3	4	1	0	1
Fire Fighters	20	27	7	0	7
All Other Service Workers	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	56	89	23	3	26
Mechanics, Diesel	1	1	0	0	0
Truck Drivers	9	12	3	0	3
Bus Drivers	1	1	0	0	0
Carpenters	2	3	1	0	1
Supervisors, Nonworking	5	7	2	0	2
Heavy Equipment Operators	11	15	4	0	4
Maintenance Repairers, General Utility	1	1	0	0	0
Refuse Collectors	2	3	1	0	1
Sewage Plant Operators	1	1	0	0	0
Water Treatment Plant Operators	3	4	1	0	1
Highway Maintenance Workers	19	26	7	3	10
Gardeners & Groundskeepers	4	5	1	0	1
Ambulance Drivers &/or Attendants	3	4	1	0	1
All Other Operatives & Semiskilled Workers	1	1	0	0	0
All Other Laborers & Unskilled Workers	3	4	1	0	1
TOTAL OFFICE CLERICAL WORKERS	52	71	19	8	27
Computer Operators	2	3	1	0	1
Stenographers	1	1	0	0	0
Accounting Clerks	1	1	0	0	0
Bookkeepers, Hand	5	7	2	0	2
Cashiers	1	1	0	0	0
General Clerks	4	5	1	0	1
Library Assistants	1	1	0	0	0
Secretaries	13	18	5	4	9
Switchboard Operators/Receptionists	2	3	1	0	1
Typists	12	16	4	4	8
Clerical Supervisors	6	8	2	0	2
Eligibility Workers, Welfare	1	1	0	0	0
Court Clerks	1	1	0	0	0
Town Clerks	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

APACHE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
All Other Office Clerical Workers	1	1	0	0	0
TOTAL PLANT CLERICAL WORKERS	4	6	2	0	2
Dispatchers, Police, Fire, & Ambulance	4	6	2	0	2
TOTAL ALL OCCUPATIONS	215	292	77	16	93

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

COCHISE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	130	160	30	15	45
Public Administration Inspectors	11	14	3	0	3
Construction Inspectors	9	11	2	0	2
Chief Executives & Legislators	65	80	15	9	24
All Other Managers & Officers	45	55	10	6	16
TOTAL PROFESSIONAL WORKERS	189	234	45	28	73
Civil Engineers	5	6	1	0	1
Industrial Engineers	1	1	0	0	0
Psychologists	3	4	1	0	1
Urban & Regional Planners	4	5	1	0	1
Systems Analysts, EDP	7	9	2	0	2
Purchasing Agents &/or Buyers	1	1	0	0	0
Accountants & Auditors	10	12	2	0	2
Budget Analysts	1	1	0	0	0
Caseworkers	3	4	1	0	1
Law Clerks	8	10	2	0	2
Lawyers	18	22	4	0	4
Librarians, Professional	10	12	2	4	6
Nurses, Professional	14	17	3	4	7
Personnel & Labor Relations Specialists	2	2	0	0	0
Physicians &/or Surgeons	1	1	0	0	0
Community Organization Workers	1	1	0	0	0
Judges	3	4	1	0	1
Magistrates	18	22	4	4	8
Tax Examiners, Collectors, &/or Revenue Agents	1	1	0	0	0
Assessors	8	10	2	4	6
Group Recreation Workers	49	61	12	8	20
Manual Arts, Music, &/or Recreational Therapists	3	4	1	0	1
Speech Pathologists &/or Audiologists	1	1	0	0	0
All Other Professional Workers	17	21	4	4	8
TOTAL TECHNICAL WORKERS	34	42	8	0	8
Computer Programmers	2	2	0	0	0
Drafters	7	9	2	0	2
Surveyors	3	4	1	0	1
Traffic Technicians	2	2	0	0	0
Licensed Practical Nurses	4	5	1	0	1
Physician's Assistants	5	6	1	0	1
Radio Operators	6	7	1	0	1
Technical Assistants, Library	4	5	1	0	1
Medical & Dental Technicians & Technologists	1	1	0	0	0
TOTAL SERVICE WORKERS	265	326	61	19	80
Janitors, Porters, & Cleaners	15	18	3	4	7
Guards & Doorkeepers	5	6	1	0	1
Kitchen Helpers	1	1	0	0	0
Cooks, Institution	1	1	0	0	0
All Other Food Service Workers	1	1	0	0	0
Recreation Facility Attendants	8	10	2	0	2
Officers, Police	17	21	4	0	4
Detectives, Police	16	20	4	0	4
Police Patrolmen/women	67	82	15	4	19
Parking Enforcement Officers	1	1	0	0	0
Correction Officers &/or Jailers	8	10	2	1	3
Sheriffs	52	64	12	4	16
Bailiffs	3	4	1	0	1
Fire Inspectors	1	1	0	0	0
Fire Fighters	53	65	12	4	16
Officers, Fire	9	11	2	0	2
All Other Service Workers	7	9	2	2	4

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

COCHISE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MAINTENANCE & PRODUCTION WORKERS	310	379	69	16	85
Mechanics, Automotive	9	11	2	0	2
Mechanics, Automotive, Apprentice	1	1	0	0	0
Mechanics, Engineering Equipment	5	6	1	0	1
Mechanics, Maintenance	2	2	0	0	0
Mechanics, Radio	1	1	0	0	0
Mechanics, Treatment Plant	5	6	1	0	1
Water Meter Installers	5	6	1	0	1
Truck Drivers	25	31	6	0	6
Supervisors, Nonworking	8	10	2	0	2
Heavy Equipment Operators	33	41	8	4	12
Maintenance Repairers, General Utility	74	91	17	4	21
Helpers, Trades	1	1	0	0	0
Plumbers &/or Pipefitters	1	1	0	0	0
Refuse Collectors	30	37	7	0	7
Sewage Plant Operators	8	10	2	0	2
Animal Caretakers	4	5	1	0	1
Water Treatment Plant Operators	4	5	1	0	1
Fuel Pump Attendants &/or Lubricators	4	5	1	0	1
Highway Maintenance Workers	56	68	12	4	16
Surveyor Helpers	1	1	0	0	0
Gardeners & Groundskeepers	29	35	6	4	10
Ambulance Drivers &/or Attendants	1	1	0	0	0
All Other Operatives & Semiskilled Workers	3	4	1	0	1
TOTAL OFFICE CLERICAL WORKERS	221	271	50	55	105
Bookkeeping &/or Billing Machine Operators	7	9	2	2	4
Computer Operators	2	2	0	0	0
Stenographers	5	6	1	0	1
Accounting Clerks	22	27	5	4	9
Bookkeepers, Hand	12	15	3	4	7
Cashiers	1	1	0	0	0
File Clerks	19	23	4	6	10
General Clerks	31	38	7	8	15
Library Assistants	5	6	1	0	1
Payroll &/or Timekeeping Clerks	12	15	3	4	7
Personnel Clerks	2	2	0	0	0
Procurement Clerks	3	4	1	0	1
Receptionists	2	2	0	0	0
Secretaries	37	45	8	11	19
Statistical Clerks	2	2	0	0	0
Typists	25	31	6	8	14
Clerical Supervisors	3	4	1	0	1
Court Clerks	26	32	6	8	14
Town Clerks	3	4	1	0	1
License Clerks	2	2	0	0	0
TOTAL PLANT CLERICAL WORKERS	51	62	11	4	15
Meter Readers, Utilities	7	9	2	0	2
Dispatchers, Vehicle, Service or Work	1	1	0	0	0
Dispatchers, Police, Fire, & Ambulance	43	52	9	4	13
TOTAL ALL OCCUPATIONS	1,200	1,474	274	137	411

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

COCONINO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	131	165	34	17	51
Public Administration Inspectors	7	8	1	0	1
Construction Inspectors	19	24	5	4	9
Chief Executives & Legislators	37	47	10	5	15
All Other Managers & Officers	68	86	18	8	26
TOTAL PROFESSIONAL WORKERS	214	271	57	35	92
Civil Engineers	13	16	3	0	3
Traffic Engineers	1	1	0	0	0
Economists	2	3	1	0	1
Urban & Regional Planners	9	11	2	0	2
Systems Analysts, EDP	3	4	1	0	1
Purchasing Agents &/or Buyers	2	3	1	0	1
Accountants & Auditors	6	8	2	0	2
Budget Analysts	2	3	1	0	1
Caseworkers	22	28	6	4	10
Commercial Artists	3	4	1	0	1
Dietitions &/or Nutritionists	1	1	0	0	0
Lawyers	9	11	2	0	2
Librarians, Professional	12	15	3	4	7
Nurses, Professional	18	23	5	4	9
Paralegal Personnel	3	4	1	0	1
Personnel & Labor Relations Specialists	7	9	2	0	2
Public Relations Practitioners	3	4	1	0	1
Community Organization Workers	9	11	2	3	5
Welfare Investigators	2	3	1	0	1
Judges	2	3	1	0	1
Magistrates	11	14	3	4	7
Tax Examiners, Collectors, &/or Revenue Agents	2	3	1	0	1
Assessors	7	9	2	4	6
Group Recreation Workers	44	56	12	8	20
Manual Arts, Music, &/or Recreational Therapists	2	3	1	0	1
All Other Professional Workers	19	24	5	4	9
TOTAL TECHNICAL WORKERS	30	38	8	7	15
Computer Programmers	1	1	0	0	0
Drafters	9	11	2	0	2
Surveyors	3	4	1	4	5
Civil Engineering Technicians	7	9	2	0	2
Licensed Practical Nurses	1	1	0	0	0
Technical Assistants, Library	7	9	2	3	5
Medical & Dental Technicians & Technologists	1	1	0	0	0
All Other Technical Workers	1	1	0	0	0
TOTAL SERVICE WORKERS	272	344	72	20	92
Janitors, Porters, & Cleaners	19	24	5	4	9
Guards & Doorkeepers	5	6	1	0	1
Cooks, Institution	5	6	1	0	1
Supervisors, Nonworking Service	3	4	1	0	1
Nurse's Aides &/or Orderlies	15	19	4	4	8
Recreation Facility Attendants	7	9	2	0	2
Forest Conservation Workers	2	3	1	0	1
Child-Care Workers	2	3	1	0	1
Social Service Aides	10	13	3	4	7
Officers, Police	36	45	9	0	9
Detectives, Police	10	13	3	0	3
Police Patrolmen/women	86	109	23	4	27
Parking Enforcement Officers	1	2	1	0	1
Corrections Officers &/or Jailers	19	24	5	4	9
Sheriffs	3	4	1	0	1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

COCONINO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Bailiffs	2	3	1	0	1
Fire Inspectors	1	2	1	0	1
Fire Fighters	35	44	9	0	9
Officers, Fire	4	5	1	0	1
All Other Service Workers	7	8	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	325	408	83	18	101
Mechanics, Automotive	5	6	1	0	1
Mechanics, Diesel	9	11	2	0	2
Mechanics, Engineering Equipment	7	9	2	0	2
Mechanics, Engineering Equipment, Apprentice	3	4	1	0	1
Mechanics, Maintenance	1	1	0	0	0
Mechanics, Treatment Plant	1	1	0	0	0
Water Meter Installers	3	4	1	0	1
All Other Mechanics & Repairers	2	3	1	0	1
Truck Drivers	9	11	2	0	2
Bus Drivers	4	5	1	0	1
Carpenters	2	3	1	0	1
Electricians	2	3	1	0	1
Supervisors, Nonworking	30	38	8	4	12
Heavy Equipment Operators	50	63	13	4	17
Maintenance Repairers, General Utility	62	78	16	4	20
Helpers, Trades	17	21	4	0	4
Plumbers &/or Pipefitters	3	4	1	0	1
Refuse Collectors	14	18	4	0	4
Sewage Plant Operators	14	18	4	0	4
Animal Caretakers	2	3	1	0	1
Water Treatment Plant Operators	8	10	2	0	2
Highway Maintenance Workers	10	13	3	0	3
Surveyor Helpers	4	5	1	0	1
Gardeners & Groundskeepers	5	6	1	0	1
All Other Skilled Craft Workers	11	14	3	0	3
All Other Operatives & Semiskilled Workers	18	23	5	2	7
All Other Laborers & Unskilled Workers	29	37	8	4	12
TOTAL OFFICE CLERICAL WORKERS	251	316	65	53	118
Computer Operators	3	4	1	0	1
Keypunch Operators	3	4	1	0	1
Stenographers	14	18	4	4	8
Accounting Clerks	20	25	5	4	9
Bookkeepers, Hand	14	18	4	4	8
Cashiers	2	3	1	0	1
File Clerks	5	6	1	0	1
General Clerks	32	40	8	8	16
Library Assistants	18	23	5	4	9
Mail Clerks	5	6	1	0	1
Payroll &/or Timekeeping Clerks	3	4	1	0	1
Personnel Clerks	1	1	0	0	0
Receptionists	2	3	1	0	1
Secretaries	24	30	6	8	14
Statistical Clerks	2	3	1	0	1
Switchboard Operators/Receptionists	2	3	1	0	1
Messengers	1	1	0	0	0
Typists	53	67	14	17	31
Clerical Supervisors	9	11	2	0	2
Court Clerks	18	23	5	4	9
Town Clerks	8	10	2	0	2
License Clerks	11	14	3	0	3
All Other Office Clerical Workers	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

COCONINO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL PLANT CLERICAL WORKERS	56	70	14	6	20
Meter Readers, Utilities	8	10	2	0	2
Stock Clerks	2	3	1	0	1
Dispatchers, Police, Fire, & Ambulance	46	57	11	6	17
TOTAL ALL OCCUPATIONS	1,279	1,612	333	156	489

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

GILA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	69	75	6	8	14
Public Administration Inspectors	8	9	1	0	1
Construction Inspectors	5	5	0	0	0
Chief Executives & Legislators	27	29	2	4	6
All Other Managers & Officers	29	32	3	4	7
TOTAL PROFESSIONAL WORKERS	47	52	5	0	5
Civil Engineers	4	4	0	0	0
All Other Engineers	1	1	0	0	0
Budget Analysts	2	2	0	0	0
Caseworkers	7	8	1	0	1
Lawyers	9	10	1	0	1
Librarians, Professional	1	1	0	0	0
Nurses, Professional	2	2	0	0	0
Physicians &/or Surgeons	2	2	0	0	0
Judges	7	8	1	0	1
Magistrates	8	9	1	0	1
Tax Examiners, Collectors, &/or Revenue Agents	1	1	0	0	0
Assessors	3	3	0	0	0
TOTAL TECHNICAL WORKERS	2	2	0	0	0
Drafters	1	1	0	0	0
Science Technicians	1	1	0	0	0
TOTAL SERVICE WORKERS	142	155	13	4	17
Janitors, Porters, & Cleaners	17	19	2	4	6
Supervisors, Nonworking Service	1	1	0	0	0
Social Service Aides	2	2	0	0	0
Officers, Police	9	10	1	0	1
Detectives, Police	2	2	0	0	0
Police Patrolmen/women	25	27	2	0	2
Correction Officers &/or Jailers	4	4	0	0	0
Sheriffs	31	34	3	0	3
Bailiffs	2	2	0	0	0
Fire Inspectors	1	1	0	0	0
Fire Fighters	46	50	4	0	4
Officers, Fire	1	1	0	0	0
All Other Service Workers	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	201	218	17	9	26
Mechanics, Automotive	8	9	1	0	1
Mechanics, Diesel	2	2	0	0	0
Mechanics, Maintenance	5	5	0	0	0
Mechanics, Radio	2	2	0	0	0
Water Meter Installers	3	3	0	0	0
All Other Mechanics & Repairers	1	1	0	0	0
Truck Drivers	17	18	1	0	1
Supervisors, Nonworking	8	9	1	0	1
Heavy Equipment Operators	30	33	3	1	4
Maintenance Repairers, General Utility	3	3	0	0	0
Refuse Collectors	19	21	2	0	2
Sewage Plant Operators	9	10	1	0	1
Animal Caretakers	4	4	0	0	0
Water Treatment Plant Operators	1	1	0	0	0
Pump Station Operators, Waterworks	3	3	0	0	0
Welders & Flamecutters	2	2	0	0	0
Fuel Pump Attendants &/or Lubricators	2	2	0	0	0
Highway Maintenance Workers	37	40	3	4	7
Gardeners & Groundskeepers	9	10	1	0	1
All Other Skilled Craft Workers	1	1	0	0	0
All Other Operatives & Semiskilled Workers	1	1	0	0	0
All Other Laborers & Unskilled Workers	34	37	3	4	7

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

GILA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL OFFICE CLERICAL WORKERS	109	118	9	20	29
Computer Operators	1	1	0	0	0
Stenographers	2	2	0	0	0
Accounting Clerks	8	9	1	0	1
Bookkeepers, Hand	3	3	0	0	0
Cashiers	1	1	0	0	0
File Clerks	10	11	1	4	5
General Clerks	18	19	1	4	5
Library Assistants	2	2	0	0	0
Mail Clerks	1	1	0	0	0
Payroll &/or Timekeeping Clerks	2	2	0	0	0
Personnel Clerks	1	1	0	0	0
Procurement Clerks	2	2	0	0	0
Receptionists	7	8	1	0	1
Secretaries	17	18	1	4	5
Switchboard Operators/Receptionists	1	1	0	0	0
Typists	21	23	2	8	10
Eligibility Workers, Welfare	1	1	0	0	0
Court Clerks	7	8	1	0	1
Town Clerks	4	4	0	0	0
TOTAL PLANT CLERICAL WORKERS	43	47	4	4	8
Meter Readers, Utilities	1	1	0	0	0
Stock Clerks	1	1	0	0	0
Dispatchers, Police, Fire, & Ambulance	41	45	4	4	8
TOTAL ALL OCCUPATIONS	613	667	54	45	99

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

GRAHAM COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	22	30	8	0	8
Public Administration Inspectors	4	5	1	0	1
Chief Executives & Legislators	7	9	2	0	2
All Other Managers & Officers	11	15	4	0	4
TOTAL PROFESSIONAL WORKERS	27	38	11	2	13
Civil Engineers	1	1	0	0	0
Urban & Regional Planners	1	1	0	0	0
Accountants & Auditors	2	3	1	0	1
Caseworkers	3	4	1	0	1
Dietitions &/or Nutritionists	2	3	1	0	1
Lawyers	3	4	1	0	1
Nurses, Professional	2	3	1	0	1
Judges	1	1	0	0	0
Magistrates	6	8	2	2	4
Tax Examiners, Collectors, &/or Revenue Agents	2	3	1	0	1
Assessors	3	4	1	0	1
All Other Professional Workers	1	1	0	0	0
TOTAL TECHNICAL WORKERS	11	15	4	0	4
Computer Programmers	1	1	0	0	0
Drafters	5	7	2	0	2
Surveyors	2	3	1	0	1
Civil Engineering Technicians	2	3	1	0	1
All Other Engineering Technicians	1	1	0	0	0
TOTAL SERVICE WORKERS	26	36	10	0	10
Janitors, Porters, & Cleaners	1	1	0	0	0
Cooks, Institution	1	1	0	0	0
Recreation Facility Attendants	4	6	2	0	2
Officers, Police	1	1	0	0	0
Police Patrolmen/women	7	10	3	0	3
Correction Officers &/or Jailers	2	3	1	0	1
Sheriffs	9	12	3	0	3
Bailiffs	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	153	210	57	1	58
Mechanics, Automotive	7	10	3	0	3
Mechanics, Diesel	3	4	1	0	1
Electric Meter Installers	2	3	1	0	1
Gas Meter Installers	1	1	0	0	0
Mechanics, Maintenance	4	5	1	0	1
Water Meter Installers	2	3	1	0	1
Truck Drivers	3	4	1	0	1
Electricians	2	3	1	0	1
Supervisors, Nonworking	4	5	1	0	1
Heavy Equipment Operators	15	21	6	0	6
Instrument Repairers	3	4	1	0	1
Line Installers-Repairers	8	11	3	0	3
Maintenance Repairers, General Utility	17	23	6	0	6
Helpers, Trades	16	22	6	1	7
Painters, Maintenance	3	4	1	0	1
Plumbers &/or Pipefitters	18	25	7	0	7
Refuse Collectors	4	5	1	0	1
Sewage Plant Operators	5	7	2	0	2
Stationary Engineers	11	15	4	0	4
Welders & Flamecutters	2	3	1	0	1
Fuel Pump Attendants &/or Lubricators	3	4	1	0	1
Highway Maintenance Workers	11	15	4	0	4
Surveyor Helpers	5	7	2	0	2
Gardeners & Groundskeepers	4	5	1	0	1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

GRAHAM COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL OFFICE CLERICAL WORKERS	51	70	19	5	24
Computer Operators	4	6	2	0	2
Stenographers	5	7	2	1	3
Accounting Clerks	3	4	1	0	1
Cashiers	5	6	1	0	1
General Clerks	14	19	5	4	9
Payroll &/or Timekeeping Clerks	2	3	1	0	1
Procurement Clerks	1	1	0	0	0
Secretaries	3	4	1	0	1
Typists	3	4	1	0	1
Clerical Supervisors	5	7	2	0	2
Town Clerks	4	6	2	0	2
License Clerks	1	1	0	0	0
All Other Office Clerical Workers	1	1	0	0	0
TOTAL PLANT CLERICAL WORKERS	13	18	5	0	5
Meter Readers, Utilities	6	8	2	0	2
Stock Clerks	5	7	2	0	2
Dispatchers, Police, Fire, & Ambulance	2	3	1	0	1
TOTAL ALL OCCUPATIONS	303	417	114	8	122

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

GREENLEE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	18	23	5	0	5
Public Administration Inspectors	2	3	1	0	1
Construction Inspectors	1	1	0	0	0
Chief Executives & Legislators	10	13	3	0	3
All Other Managers & Officers	5	6	1	0	1
TOTAL PROFESSIONAL WORKERS	17	22	5	0	5
Civil Engineers	1	1	0	0	0
Caseworkers	2	3	1	0	1
Dietitions &/or Nutritionists	1	1	0	0	0
Lawyers	2	3	1	0	1
Nurses, Professional	2	3	1	0	1
Judges	1	1	0	0	0
Magistrates	5	6	1	0	1
Tax Examiners, Collectors, &/or Revenue Agents	2	3	1	0	1
Assessors	1	1	0	0	0
TOTAL TECHNICAL WORKERS	3	4	1	0	1
Computer Programmers	1	1	0	0	0
Licensed Practical Nurses	2	4	2	0	2
TOTAL SERVICE WORKERS	39	50	11	0	11
Janitors, Porters, & Cleaners	4	5	1	0	1
Officers, Police	2	3	1	0	1
Police Patrolmen/women	16	21	5	0	5
Correction Officers &/or Jailers	2	3	1	0	1
Sheriffs	1	1	0	0	0
Fire Fighters	13	17	4	0	4
All Other Service Workers	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	54	69	15	0	15
Mechanics, Automotive	2	3	1	0	1
Mechanics, Maintenance	2	3	1	0	1
Truck Drivers	9	11	2	0	2
Bus Drivers	1	1	0	0	0
Supervisors, Nonworking	1	1	0	0	0
Heavy Equipment Operators	9	11	2	0	2
Heavy Equipment Operators, Apprentice	2	3	1	0	1
Maintenance Repairers, General Utility	5	6	1	0	1
Refuse Collectors	2	3	1	0	1
Highway Maintenance Workers	12	15	3	0	3
Gardeners & Groundskeepers	2	3	1	0	1
All Other Laborers & Unskilled Workers	7	9	2	0	2
TOTAL OFFICE CLERICAL WORKERS	32	41	9	8	17
Keypunch Operators	2	3	1	0	1
All Other Office Machine Operators	2	3	1	0	1
Cashiers	1	1	0	0	0
General Clerks	1	1	0	0	0
Receptionists	2	3	1	0	1
Secretaries	7	9	2	4	6
Typists	10	13	3	4	7
Clerical Supervisors	3	4	1	0	1
Court Clerks	2	3	1	0	1
Town Clerks	2	3	1	0	1
TOTAL PLANT CLERICAL WORKERS	6	8	2	0	2
Stock Clerks	1	1	0	0	0
Dispatchers, Police, Fire, & Ambulance	5	7	2	0	2
TOTAL ALL OCCUPATIONS	169	217	48	8	56

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	1,031	1,163	132	128	260
Public Administration Inspectors	79	89	10	8	18
Construction Inspectors	238	268	30	32	62
Chief Executives & Legislators	156	176	20	20	40
All Other Managers & Officers	558	629	71	68	139
TOTAL PROFESSIONAL WORKERS	2,570	2,921	351	370	721
Civil Engineers	118	134	16	12	28
Electrical & Electronic Engineers	6	7	1	0	1
Industrial Engineers	1	1	0	0	0
Mechanical Engineers	4	5	1	0	1
Traffic Engineers	12	14	2	0	2
All Other Engineers	14	16	2	0	2
Chemists	13	15	2	0	2
Agricultural Scientists	2	2	0	0	0
All Other Life Scientists	2	2	0	0	0
Economists	12	14	2	0	2
Psychologists	13	15	2	0	2
Urban & Regional Planners	76	86	10	4	14
All Other Social Scientists	8	9	1	0	1
Systems Analysts, EDP	95	108	13	4	17
Photographers	9	10	1	0	1
Purchasing Agents &/or Buyers	43	49	6	4	10
Accountants & Auditors	156	177	21	23	44
Landscape Architects	24	27	3	4	7
Architects (Exclude Landscape Architects)	2	2	0	2	2
Budget Analysts	18	20	2	4	6
Caseworkers	308	350	42	62	104
Commercial Artists	5	6	1	0	1
Law Clerks	24	27	3	4	7
Lawyers	247	281	34	22	56
Librarians, Professional	104	118	14	27	41
Nurses, Professional	3	3	0	0	0
Paralegal Personnel	8	9	1	0	1
Personnel & Labor Relations Specialists	65	74	9	8	17
Physicians &/or Surgeons	2	2	0	0	0
Public Relations Practitioners	21	24	3	4	7
Community Organization Workers	33	38	5	8	13
Judges	21	24	3	4	7
Magistrates	34	39	5	8	13
Tax Examiners, Collectors, & Revenue Agents	12	14	2	1	3
Assessors	85	97	12	24	36
Group Recreation Workers	633	719	86	91	177
All Other Professional Workers	337	383	46	50	96
TOTAL TECHNICAL WORKERS	528	600	72	45	117
Computer Programmers	50	57	7	4	11
Drafters	78	89	11	4	15
Electrical & Electronic Technicians	8	9	1	0	1
Surveyors	40	45	5	0	5
Traffic Technicians	21	24	3	0	3
Civil Engineering Technicians	129	147	18	12	30
All Other Engineering Technicians	62	70	8	4	12
Technical Assistants, Library	51	58	7	13	20
Medical & Dental Technicians & Technologists	1	1	0	0	0
All Other Technical Workers	88	100	12	8	20
TOTAL SERVICE WORKERS	5,401	6,112	711	436	1,147
Janitors, Porters, & Cleaners	263	298	35	41	76
Guards & Doorkeepers	53	60	7	4	11
Kitchen Helpers	4	5	1	0	1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Cooks, Institution	23	26	3	4	7
Supervisors, Nonworking Service	64	72	8	4	12
Recreation Facility Attendants	241	273	32	34	66
Ushers, Lobby Attendants, Ticket Takers, &/or Drive-In Theater Attendants	22	24	2	4	6
Social Service Aides	163	184	21	32	53
Officers, Police	476	539	63	20	83
Detectives, Police	635	719	84	27	111
Police Patrolmen/women	1,227	1,389	162	51	213
Parking Enforcement Officers	66	75	9	4	13
Correction Officers &/or Jailers	121	137	16	22	38
Sheriffs	417	472	55	24	79
Bailiffs	46	52	6	4	10
Fire Inspectors	34	38	4	0	4
Fire Fighters	748	846	98	31	129
Officers, Fire	268	303	35	12	47
All Other Service Workers	530	600	70	118	188
TOTAL MAINTENANCE & PRODUCTION WORKERS	6,380	7,174	794	543	1,337
Mechanics, Automotive	190	214	24	12	36
Mechanics, Diesel	94	106	12	6	18
Electric Meter Installers	2	2	0	0	0
Gas Meter Installers	56	63	7	4	11
Mechanics, Engineering Equipment	59	66	7	4	11
Mechanics, Hydroelectric Machinery, Powerhouse, &/or Gas Plant Repairers	12	13	1	0	1
Mechanics, Maintenance	4	4	0	0	0
Mechanics, Radio	38	43	5	4	9
Mechanics, Radio, Apprentice	5	6	1	0	1
Mechanics, Treatment Plant	58	65	7	4	11
Water Meter Installers	198	223	25	8	33
All Other Mechanics & Repairers	59	66	7	4	11
Truck Drivers	289	325	36	16	52
Bus Drivers	24	27	3	4	7
Carpenters	16	18	2	0	2
Carpenters, Apprentice	9	10	1	0	1
Cement Masons	11	12	1	0	1
Compositors &/or Typesetters	2	2	0	0	0
Crane, Derrick, & Hoist Operators	1	1	0	0	0
Electricians	44	49	5	4	9
Electricians, Apprentice	8	9	1	0	1
Supervisors, Nonworking	168	189	21	12	33
Heavy Equipment Operators	225	253	28	15	43
Instrument Repairers	6	7	1	0	1
Line Installer-Repairers	15	17	2	0	2
Machinists	1	1	0	0	0
Maintenance Repairers, General Utility	233	262	29	16	45
Helpers, Trades	59	66	7	4	11
Painters, Maintenance	23	26	3	4	7
Plumbers &/or Pipefitters	23	26	3	0	3
Press Operators &/or Plate Printers	8	9	1	0	1
Refuse Collectors	515	579	64	24	88
Sewage Plant Operators	72	81	9	4	13
Stationary Engineers	48	54	6	4	10
Stationary Engineers, Apprentice	4	4	0	0	0
Streetlight Repairers & Servicers	6	7	1	0	1
Animal Caretakers	60	67	7	12	19
Watershed Tenders	29	33	4	4	8
Water Treatment Plant Operators	46	52	6	4	10
Pump Station Operators, Waterworks	18	20	2	0	2
Welders & Flamecutters	22	25	3	4	7
Fuel Pump Attendants &/or Lubricators	62	70	8	5	13
Highway Maintenance Workers	424	477	53	40	93

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Surveyor Helpers	49	55	6	4	10
Gardeners & Groundskeepers	472	531	59	74	133
Bus Drivers, School	19	21	2	4	6
All Other Skilled Craft Workers	446	502	56	31	87
All Other Operatives & Semiskilled Workers	658	740	82	70	152
All Other Laborers & Unskilled Workers	1,490	1,675	185	138	323
TOTAL OFFICE CLERICAL WORKERS	3,753	4,229	476	949	1,425
Bookkeeping &/or Billing Machine Operators	4	5	1	0	1
Computer Operators	75	85	10	8	18
Keypunch Operators	150	169	19	38	57
Duplicating Machine Operators	24	27	3	7	10
All Other Office Machine Operators	30	34	4	8	12
Stenographers	34	38	4	8	12
Accounting Clerks	327	368	41	74	115
Bookkeepers, Hand	11	12	1	4	5
Cashiers	83	94	11	20	31
File Clerks	302	340	38	93	131
General Clerks	466	525	59	111	170
Library Assistants	189	213	24	50	74
Mail Clerks	17	19	2	4	6
Payroll &/or Timekeeping Clerks	8	9	1	0	1
Personnel Clerks	48	54	6	16	22
Procurement Clerks	1	1	0	0	0
Receptionists	21	24	3	8	11
Secretaries	518	584	66	142	208
Statistical Clerks	4	5	1	0	1
Switchboard Operators	35	39	4	12	16
Switchboard Operators/Receptionists	4	5	1	0	1
Messengers	15	17	2	2	4
Typists	620	699	79	184	263
Clerical Supervisors	196	221	25	24	49
Eligibility Workers, Welfare	2	2	0	0	0
Court Clerks	152	171	19	37	56
Town Clerks	17	19	2	4	6
License Clerks	78	88	10	19	29
All Other Office Clerical Workers	322	363	41	76	117
TOTAL PLANT CLERICAL WORKERS	398	448	50	44	94
Meter Readers, Utilities	78	88	10	4	14
Weighers, Record-Keeping	10	11	1	4	5
Stock Clerks	84	95	11	8	19
Dispatchers, Vehicle, Service or Work	15	17	2	0	2
Dispatchers, Police, Fire, & Ambulance	200	225	25	24	49
All Other Plant Clerical Workers	11	12	1	4	5
TOTAL ALL OCCUPATIONS	20,061	22,647	2,586	2,515	5,101

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

MOHAVE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	59	77	18	6	24
Public Administration Inspectors	1	1	0	0	0
Construction Inspectors	4	5	1	0	1
Chief Executives & Legislators	5	7	2	0	2
All Other Managers & Officers	49	64	15	6	21
TOTAL PROFESSIONAL WORKERS	77	101	24	12	36
Chemical Engineers	1	1	0	0	0
Civil Engineers	4	5	1	0	1
Agricultural Scientists	1	1	0	0	0
Urban & Regional Planners	1	1	0	0	0
Purchasing Agents &/or Buyers	2	3	1	0	1
Accountants & Auditors	1	1	0	0	0
Landscape Architects	13	17	4	2	6
Budget Analysts	1	1	0	0	0
Caseworkers	5	7	2	2	4
Dietitions &/or Nutritionists	1	1	0	0	0
Lawyers	6	8	2	0	2
Librarians, Professional	1	1	0	0	0
Nurses, Professional	4	5	1	1	2
Paralegal Personnel	1	1	0	0	0
Personnel & Labor Relations Specialists	1	1	0	0	0
Physicians &/or Surgeons	2	3	1	0	1
Judges	2	3	1	0	1
Magistrates	4	5	1	2	3
Tax Examiners, Collectors, &/or Revenue Agents	10	13	3	3	6
Assessors	7	9	2	2	4
Group Recreation Workers	5	7	2	0	2
All Other Professional Workers	4	5	1	0	1
TOTAL TECHNICAL WORKERS	13	17	4	0	4
Drafters	4	5	1	0	1
Surveyors	4	5	1	0	1
Civil Engineering Technicians	1	1	0	0	0
Licensed Practical Nurses	1	1	0	0	0
Technical Assistants, Library	2	3	1	0	1
All Other Technicians & Technologists	1	1	0	0	0
TOTAL SERVICE WORKERS	248	324	76	19	95
Janitors, Porters, & Cleaners	12	15	3	3	6
Guards & Doorkeepers	3	4	1	0	1
Kitchen Helpers	3	4	1	0	1
Cooks, Institution	3	4	1	0	1
All Other Food Service Workers	4	5	1	0	1
Nurse's Aides &/or Orderlies	7	9	2	3	5
Child-Care Workers	9	12	3	3	6
Officers, Police	28	37	9	0	9
Detectives, Police	19	25	6	0	6
Police, Patrolmen/women	82	107	25	3	28
Parking Enforcement Officers	1	1	0	0	0
Correction Officers &/or Jailers	8	10	2	3	5
Sheriffs	1	1	0	0	0
Fire Inspectors	1	1	0	0	0
Fire Fighters	63	82	19	4	23
All Other Service Workers	4	5	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	187	242	55	12	67
Mechanics, Automotive	10	13	3	0	3
Mechanics, Diesel	2	3	1	0	1
Mechanics, Engineering Equipment	4	5	1	0	1
Mechanics, Hydroelectric Machinery, Powerhouse, &/or Gas Plant Repairers	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

MOHAVE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Mechanics, Maintenance	1	1	0	0	0
Water Meter Installers	5	6	1	0	1
All Other Mechanics & Repairers	1	1	0	0	0
Truck Drivers	4	5	1	0	1
Carpenters	2	3	1	0	1
Cement Masons	1	1	0	0	0
Electricians	1	1	0	0	0
Supervisors, Nonworking	4	5	1	0	1
Heavy Equipment Operators	35	45	10	3	13
Industrial Truck Operators	13	17	4	0	4
Maintenance Repairers, General Utility	17	22	5	2	7
Helpers, Trades	3	4	1	0	1
Painters, Maintenance	4	5	1	0	1
Plumbers &/or Pipefitters	9	11	2	0	2
Refuse Collectors	7	9	2	0	2
Sewage Plant Operators	3	4	1	0	1
Animal Caretakers	2	3	1	0	1
Water Treatment Plant Operators	2	3	1	0	1
Pump Station Operators, Waterworks	7	9	2	0	2
Welders and Flamecutters	1	1	0	0	0
Highway Maintenance Workers	7	9	2	0	2
Surveyor Helpers	4	5	1	0	1
Gardeners and Groundskeepers	13	16	3	4	7
Bus Drivers, School	1	1	0	0	0
All Other Skilled Craft Workers	3	4	1	0	1
All Other Laborers & Unskilled Workers	20	26	6	3	9
TOTAL OFFICE CLERICAL WORKERS	220	286	66	61	127
Keypunch Operators	5	6	1	3	4
Stenographers	2	3	1	0	1
Accounting Clerks	45	59	14	15	29
Bookkeepers, Hand	1	1	0	0	0
Cashiers	1	1	0	0	0
File Clerks	4	5	1	0	1
General Clerks	50	65	15	13	28
Library Assistants	13	17	4	4	8
Payroll &/or Timekeeping Clerks	3	4	1	0	1
Personnel Clerks	1	1	0	0	0
Receptionists	1	1	0	0	0
Secretaries	21	27	6	6	12
Statistical Clerks	1	1	0	0	0
Switchboard Operators	2	3	1	0	1
Switchboard Operators/Receptionists	5	6	2	1	3
Typists	25	33	8	9	17
Eligibility Workers	3	4	1	0	1
Court Clerks	9	12	3	3	6
Town Clerks	2	3	1	0	1
License Clerks	6	8	2	1	3
All Other Office Clerical Workers	20	26	6	5	11
TOTAL PLANT CLERICAL WORKERS	37	48	11	3	14
Meter Readers, Utilities	2	3	1	0	1
Production Clerks &/or Coordinators	7	9	2	0	2
Stock Clerks	3	4	1	0	1
Dispatchers, Police, Fire, & Ambulance	25	32	7	3	10
TOTAL ALL OCCUPATIONS	841	1,095	254	113	367

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

NAVAJO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	85	101	16	12	28
Public Administration Inspectors	1	1	0	0	0
Contruction Inspectors	9	11	2	0	2
Chief Executives & Legislators	23	27	4	4	8
All Other Managers & Officers	52	62	10	8	18
TOTAL PROFESSIONAL WORKERS	69	82	13	2	15
Civil Engineers	2	2	0	0	0
All Other Engineers	1	1	0	0	0
Urban & Regional Planners	1	1	0	0	0
Photographers	1	1	0	0	0
Purchasing Agents &/or Buyers	1	1	0	0	0
Accountants & Auditors	1	1	0	0	0
Landscape Architects	2	2	0	0	0
Budget Analysts	3	4	1	0	1
Caseworkers	8	10	2	2	4
Law Clerks	9	11	2	0	2
Lawyers	5	6	1	0	1
Librarians, Professional	5	6	1	0	1
Nurses, Professional	1	1	0	0	0
Paralegal Personnel	3	4	1	0	1
Personnel & Labor Relations Specialists	3	4	1	0	1
Welfare Investigators	1	1	0	0	0
Judges	5	6	1	0	1
Magistrates	8	10	2	0	2
Tax Examiners, Collectors, &/or Revenue Agents	7	8	1	0	1
Assessors	1	1	0	0	0
Group Recreation Workers	1	1	0	0	0
TOTAL TECHNICAL WORKERS	22	26	4	0	4
Computer Programmers	3	4	1	0	1
Drafters	5	6	1	0	1
Electrical & Electronic Technicians	1	1	0	0	0
Surveyors	2	2	0	0	0
Traffic Technicians	1	1	0	0	0
Civil Engineering Technicians	3	4	1	0	1
Technical Assistants, Library	6	7	1	0	1
All Other Technical Workers	1	1	0	0	0
TOTAL SERVICE WORKERS	126	150	24	12	36
Janitors, Porters, & Cleaners	4	5	1	0	1
Cooks, Institution	2	2	0	0	0
Recreation Facility Attendants	8	10	2	0	2
Officers, Police	16	19	3	0	3
Detectives, Police	2	2	0	0	0
Police Patrolmen/women	63	75	12	4	16
Correction Officers &/or Jailers	12	14	2	4	6
Sheriffs	1	1	0	0	0
Fire Fighters	5	6	1	0	1
Officers, Fire	2	2	0	0	0
All Other Service Workers	11	13	2	4	6
TOTAL MAINTENANCE & PRODUCTION WORKERS	240	284	44	14	58
Mechanics, Automotive	3	4	1	0	1
Mechanics, Engineering Equipment	1	1	0	0	0
Mechanics, Engineering Equipment, Apprentice	1	1	0	0	0
Mechanics, Maintenance	1	1	0	0	0
Mechanics, Treatment Plant	8	9	1	0	1
Water Meter Installers	3	4	1	0	1
Truck Drivers	3	4	1	0	1
Supervisors, Nonworking	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

NAVAJO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Heavy Equipment Operators	6	7	1	0	1
Heavy Equipment Operators, Apprentice	1	1	0	0	0
Maintenance Repairers, General Utility	26	31	5	0	5
Pipelayers	4	5	1	0	1
Plumbers &/or Pipefitters	4	5	1	0	1
Refuse Collectors	19	22	3	0	3
Sewage Plant Operators	5	6	1	0	1
Animal Caretakers	7	8	1	0	1
Water Treatment Plant Operators	4	5	1	0	1
Highway Maintenance Workers	92	109	17	8	25
Surveyor Helpers	3	4	1	0	1
Gardeners & Groundskeepers	36	43	7	6	13
All Other Operatives & Semiskilled Workers	1	1	0	0	0
All Other Laborers & Unskilled Workers	11	13	2	0	2
TAL OFFICE CLERICAL WORKERS	127	151	24	20	44
Bookkeeping &/or Billing Machine Operators	3	4	1	0	1
Computer Operators	4	5	1	0	1
Stenographers	2	2	0	0	0
Accounting Clerks	15	18	3	4	7
Bookkeepers, Hand	5	6	1	0	1
Cashiers	1	1	0	0	0
File Clerks	6	7	1	0	1
General Clerks	7	8	1	0	1
Library Assistants	6	7	1	0	1
Mail Clerks	1	1	0	0	0
Payroll &/or Timekeeping Clerks	3	4	1	0	1
Personnel Clerks	1	1	0	0	0
Receptionists	1	1	0	0	0
Secretaries	18	21	3	4	7
Switchboard Operators	2	2	0	0	0
Switchboard Operators/Receptionists	2	2	0	0	0
Typists	25	30	5	8	13
Clerical Supervisors	4	5	1	0	1
Eligibility Workers, Welfare	1	1	0	0	0
Court Clerks	6	7	1	0	1
Town Clerks	3	4	1	0	1
License Clerks	10	12	2	4	6
All Other Office Clerical Workers	1	1	0	0	0
TOTAL PLANT CLERICAL WORKERS	27	32	5	4	9
Meter Readers, Utilities	4	5	1	0	1
Dispatchers, Police, Fire, & Ambulance	23	27	4	4	8
TOTAL ALL OCCUPATIONS	696	826	130	64	194

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	258	298	40	32	72
Public Administration Inspectors	53	61	8	6	14
Construction Inspectors	72	83	11	10	21
Chief Executives & Legislators	29	33	4	4	8
All Other Managers & Officers	104	121	17	12	29
TOTAL PROFESSIONAL WORKERS	1,469	1,709	240	229	469
Civil Engineers	69	80	11	8	19
Industrial Engineers	13	15	2	0	2
Safety Engineers	5	6	1	0	1
Traffic Engineers	3	3	0	0	0
All Other Engineers	4	5	1	0	1
Chemists	2	2	0	0	0
All Other Physical Scientists	4	5	1	0	1
Agricultural Scientists	1	1	0	0	0
Biological Scientists	4	5	1	0	1
Economists	3	3	0	0	0
Psychologists	4	5	1	0	1
Urban & Regional Planners	45	52	7	0	7
All Other Social Scientists	1	1	0	0	0
Systems Analysts, EDP	14	16	2	0	2
Photographers	9	10	1	0	1
Purchasing Agents &/or Buyers	15	17	2	0	2
Accountants & Auditors	80	93	13	12	25
Landscape Architects	4	5	1	0	1
Architects (Exclude Landscape Architects)	7	8	1	0	1
Budget Analysts	2	2	0	0	0
Caseworkers	97	113	16	20	36
Commercial Artists	5	6	1	0	1
Dietitions &/or Nutritionists	31	36	5	8	13
Law Clerks	14	16	2	0	2
Lawyers	96	112	16	8	24
Librarians, Professional	83	97	14	22	36
Nurses, Professional	294	342	48	71	119
Occupational Therapists	2	2	0	0	0
Paralegal Personnel	27	31	4	4	8
Personnel & Labor Relations Specialists	27	31	4	4	8
Physical Therapists	4	5	1	0	1
Physicians &/or Surgeons	6	7	1	0	1
Public Relations Practitioners	2	2	0	0	0
Community Organization Workers	5	6	1	0	1
Judges	19	22	3	4	7
Magistrates	7	8	1	0	1
Tax Examiners, Collectors, &/or Revenue Agents	1	1	0	0	0
Assessors	1	1	0	0	0
All Other Therapists	1	1	0	0	0
Group Recreation Workers	249	290	41	37	78
Speech Pathologists &/or Audiologists	2	2	0	0	0
All Other Professional Workers	207	241	34	31	65
TOTAL TECHNICAL WORKERS	488	567	79	78	157
Computer Programmers	28	33	5	0	5
Drafters	72	84	12	4	16
Electrical & Electronic Technicians	30	35	5	0	5
Surveyors	11	13	2	0	2
Civil Engineering Technicians	40	46	6	4	10
All Other Engineering Technicians	1	1	0	0	0
Science Technicians	3	3	0	0	0
Licensed Practical Nurses	93	108	15	26	41
Technical Assistants, Library	103	120	17	28	45
Medical & Dental Technicians & Technologists	56	65	9	12	21
All Other Technical Workers	51	59	8	4	12

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL SERVICE WORKERS	2,282	2,642	360	218	578
Janitors, Porters, & Cleaners	134	155	21	21	42
Guards & Doorkeepers	1	1	0	0	0
Kitchen Helpers	33	38	5	8	13
Cooks, Institution	21	24	3	4	7
Supervisors, Nonworking Service	31	36	5	4	9
Nurse's Aides &/or Orderlies	160	185	25	38	63
Recreation Facility Attendants	280	324	44	41	85
Child-Care Workers	40	46	6	12	18
Social Service Aides	7	8	1	0	1
Officers, Police	182	211	29	8	37
Detectives, Police	4	5	1	0	1
Police Patrolmen/women	738	855	117	31	148
Correction Officers &/or Jailers	100	116	16	19	35
Sheriffs	1	1	0	0	0
Bailiffs	19	22	3	0	3
Fire Inspectors	3	3	0	0	0
Fire Fighters	338	391	53	14	67
Officers, Fire	129	149	20	4	24
All Other Service Workers	61	71	10	14	24
TOTAL MAINTENANCE & PRODUCTION WORKERS	1,838	2,115	277	152	429
Mechanics, Automotive	104	120	16	8	24
Mechanics, Engineering Equipment	45	52	7	4	11
Mechanics, Maintenance	55	63	8	4	12
Mechanics, Radio	10	12	2	0	2
Mechanics, Treatment Plant	10	12	2	0	2
All Other Mechanics & Repairers	3	3	0	0	0
Truck Drivers	10	12	2	0	2
Bus Drivers	28	32	4	4	8
Carpenters	21	24	3	4	7
Cement Masons	4	5	1	0	1
Compositors &/or Typesetters	1	1	0	0	0
Electricians	30	35	5	4	9
Supervisors, Nonworking	68	78	10	4	14
Heavy Equipment Operators	241	277	36	16	52
Instrument Repairers	92	106	14	8	22
Maintenance Repairers, General Utility	9	10	1	0	1
Helpers, Trades	47	54	7	4	11
Painters, Maintenance	26	30	4	4	8
Plumbers &/or Pipefitters	12	14	2	0	2
Press Operators &/or Plate Printers	16	18	2	0	2
Refuse Collectors	254	292	38	12	50
Sewage Plant Operators	88	101	13	4	17
Stationary Engineers	7	8	1	0	1
Animal Caretakers	29	33	4	4	8
Water Treatment Plant Operators	13	15	2	0	2
Welders & Flamecutters	19	22	3	3	6
Fuel Pump Attendants &/or Lubricators	44	51	7	4	11
Highway Maintenance Workers	79	91	12	8	20
Surveyor Helpers	9	10	1	0	1
Gardeners & Groundskeepers	115	132	17	18	35
Ambulance Drivers &/or Attendants	31	36	5	4	9
All Other Skilled Craft Workers	12	14	2	0	2
All Other Operatives & Semiskilled Workers	65	75	10	8	18
All Other Laborers & Unskilled Workers	241	277	36	23	59
TOTAL OFFICE CLERICAL WORKERS	1,571	1,811	240	403	643
Computer Operators	17	20	3	2	5
Keypunch Operators	13	15	2	4	6
Duplicating Machine Operators	8	9	1	0	1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
All Other Office Machine Operators	12	14	2	4	6
Stenographers	53	61	8	13	21
Accounting Clerks	157	181	24	35	59
Bookkeepers, Hand	2	2	0	0	0
Cashiers	30	35	5	8	13
File Clerks	71	82	11	22	33
General Clerks	126	145	19	31	50
Library Assistants	16	18	2	4	6
Mail Clerks	12	14	2	4	6
Payroll &/or Timekeeping Clerks	2	2	0	0	0
Personnel Clerks	3	3	0	0	0
Procurement Clerks	4	5	1	0	1
Receptionists	2	2	0	0	0
Secretaries	219	252	33	60	93
Statistical Clerks	7	8	1	0	1
Switchboard Operators	16	18	2	4	6
Switchboard Operators/Receptionists	1	1	0	0	0
Typists	392	452	60	118	178
Clerical Supervisors	46	53	7	5	12
Eligibility Workers	13	15	2	4	6
Court Clerks	45	52	7	12	19
Town Clerks	5	6	1	0	1
All Other Office Clerical Workers	299	345	46	73	119
TOTAL PLANT CLERICAL WORKERS	163	188	25	16	41
Meter Readers, Utilities	20	23	3	0	3
Stock Clerks	45	52	7	4	11
Dispatchers, Vehicle, Service or Work	18	21	3	2	5
Dispatchers, Police, Fire, & Ambulance	80	92	12	10	22
TOTAL SALES WORKERS	16	18	2	1	3
Sales Representatives	16	18	2	1	3
TOTAL ALL OCCUPATIONS	8,085	9,348	1,263	1,129	2,392

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

PINAL COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	142	177	35	18	53
Public Administration Inspectors	4	5	1	0	1
Construction Inspectors	5	6	1	0	1
Chief Executives & Legislators	42	52	10	6	16
All Other Managers & Officers	91	113	22	12	34
TOTAL PROFESSIONAL WORKERS	130	163	33	21	54
Civil Engineers	4	5	1	0	1
Urban & Regional Planners	2	3	1	0	1
Photographers	2	3	1	0	1
Purchasing Agents &/or Buyers	2	3	1	0	1
Accountants & Auditors	31	39	8	4	12
Caseworkers	11	14	3	4	7
Law Clerks	2	3	1	0	1
Lawyers	11	14	3	0	3
Librarians, Professional	9	11	2	4	6
Nurses, Professional	6	8	2	1	3
Personnel & Labor Relations Specialists	2	3	1	0	1
Judges	3	4	1	0	1
Magistrates	19	24	5	4	9
Tax Examiners, Collectors, &/or Revenue Agents	1	1	0	0	0
Assessors	15	19	4	4	8
Group Recreation Workers	7	9	2	0	2
All Other Professional Workers	3	4	1	0	1
TOTAL TECHNICAL WORKERS	20	25	5	0	5
Computer Programmers	2	3	1	0	1
Drafters	6	8	2	0	2
Surveyors	1	1	0	0	0
Civil Engineering Technicians	2	3	1	0	1
Licensed Practical Nurses	4	5	1	0	1
Technical Assistants, Library	5	6	1	0	1
TOTAL SERVICE WORKERS	321	402	81	21	102
Janitors, Porters, & Cleaners	16	20	4	4	8
Supervisors, Nonworking Service	1	1	0	0	0
Recreation Facility Attendants	9	11	2	0	2
Social Service Aides	4	5	1	0	1
Officers, Police	34	43	9	0	9
Detectives, Police	13	16	3	0	3
Police Patrolmen/women	154	193	39	8	47
Correction Officers &/or Jailers	14	18	4	4	8
Sheriffs	14	18	4	0	4
Bailiffs	3	4	1	0	1
Fire Inspectors	1	1	0	1	1
Fire Fighters	52	65	13	4	17
Officers, Fire	3	4	1	0	1
All Other Service Workers	3	4	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	351	436	85	22	107
Mechanics, Automotive	10	12	2	0	2
Mechanics, Automotive, Apprentice	2	2	0	0	0
Mechanics, Diesel	12	15	3	0	3
Electric Meter Installers	2	2	0	0	0
Electric Meter Installers, Apprentice	1	1	0	0	0
Mechanics, Maintenance	2	2	0	0	0
Water Meter Installers	2	2	0	0	0
Truck Drivers	19	24	5	0	5
Carpenters	4	5	1	0	1
Carpenters, Apprentice	2	2	0	0	0
Electricians	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

PINAL COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Supervisors, Nonworking	6	7	1	0	1
Heavy Equipment Operators	91	113	22	7	29
Heavy Equipment Operators, Apprentice	2	2	0	0	0
Line Installers-Repairers	10	12	2	0	2
Line Installers-Repairers, Apprentice	6	7	1	0	1
Maintenance Repairers, General Utility	40	50	10	4	14
Helpers, Trades	14	17	3	0	3
Press Operators &/or Plate Printers	1	1	0	0	0
Press Operators, &/or Plate Printers, Apprentice	1	1	0	0	0
Refuse Collectors	14	17	3	0	3
Sewage Plant Operators	4	5	1	0	1
Animal Caretakers	1	1	0	0	0
Pump Station Operators, Waterworks	1	1	0	0	0
Welders & Flamecutters	3	4	1	0	1
Fuel Pump Attendants &/or Lubricators	1	1	0	0	0
Highway Maintenance Workers	27	34	7	4	11
Surveyor Helpers	2	2	0	0	0
Gardeners & Groundskeepers	39	48	9	7	16
Ambulance Drivers &/or Attendants	13	16	3	0	3
All Other Laborers & Unskilled Workers	18	22	4	0	4
TOTAL OFFICE CLERICAL WORKERS	181	225	44	41	85
Bookkeeping &/or Billing Machine Operators	5	6	1	0	1
Computer Operators	2	3	1	0	1
Keypunch Operators	3	4	1	0	1
Stenographers	3	4	1	0	1
Accounting Clerks	11	14	3	4	7
Bookkeepers, Hand	4	5	1	0	1
Cashiers	1	1	0	0	0
File Clerks	6	7	1	0	1
General Clerks	25	31	6	7	13
Library Assistants	6	7	1	0	1
Payroll &/or Timekeeping Clerks	2	3	1	0	1
Personnel Clerks	2	3	1	0	1
Procurement Clerks	1	1	0	0	0
Secretaries	19	24	5	4	9
Statistical Clerks	3	4	1	0	1
Switchboard Operators/Receptionists	9	11	2	4	6
Typists	42	52	10	14	24
Court Clerks	28	35	7	8	15
Town Clerks	7	9	2	0	2
License Clerks	1	1	0	0	0
All Other Office Clerical Workers	1	1	0	0	0
TOTAL PLANT CLERICAL WORKERS	37	47	10	4	14
Meter Readers, Utilities	2	3	1	0	1
Dispatchers, Police, Fire, & Ambulance	35	44	9	4	13
TOTAL ALL OCCUPATIONS	1,182	1,475	293	127	420

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

SANTA CRUZ COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	57	73	16	8	24
Public Administration Inspectors	9	11	2	0	2
Construction Inspectors	3	4	1	0	1
Chief Executives & Legislators	24	31	7	4	11
All Other Managers & Officers	21	27	6	4	10
TOTAL PROFESSIONAL WORKERS	44	57	13	0	13
Urban & Regional Planners	1	1	0	0	0
Systems Analysts, EDP	1	1	0	0	0
Purchasing Agents &/or Buyers	1	1	0	0	0
Accountants & Auditors	5	6	1	0	1
Budget Analysts	1	1	0	0	0
Caseworkers	5	6	1	0	1
Lawyers	3	4	1	0	1
Librarians, Professional	5	6	1	0	1
Nurses, Professional	3	4	1	0	1
Personnel & Labor Relations Specialists	1	1	0	0	0
Judges	3	4	1	0	1
Magistrates	2	3	1	0	1
Tax Examiners, Collectors, &/or Revenue Agents	5	6	1	0	1
Group Recreation Workers	8	10	2	0	2
TOTAL TECHNICAL WORKERS	10	13	3	0	3
Computer Programmers	1	1	0	0	0
Drafters	3	4	1	0	1
Surveyors	1	1	0	0	0
Licensed Practical Nurses	1	1	0	0	0
Radio Operators	4	5	1	0	1
TOTAL SERVICE WORKERS	108	140	32	5	37
Janitors, Porters, & Cleaners	11	14	3	2	5
Recreation Facility Attendants	7	9	2	0	2
Officers, Police	12	16	4	0	4
Detectives, Police	3	4	1	0	1
Police Patrolmen/women	32	41	9	0	9
Correction Officers &/or Jailers	10	13	3	3	6
Sheriffs	1	1	0	0	0
Bailiffs	1	1	0	0	0
Fire Inspectors	6	8	2	0	2
Fire Fighters	21	27	6	0	6
Officers, Fire	4	5	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	158	203	45	9	54
Mechanics, Automotive	3	4	1	0	1
Water Meter Installers	5	6	1	0	1
Truck Drivers	4	5	1	0	1
Bricklayers	2	3	1	0	1
Carpenters	2	3	1	0	1
Cement Masons	2	3	1	0	1
Electricians	1	1	0	0	0
Supervisors, Nonworking	9	12	3	0	3
Heavy Equipment Operators	6	8	2	0	2
Maintenance Repairers, General Utility	5	6	1	0	1
Painters, Maintenance	1	1	0	0	0
Plumbers &/or Pipefitters	1	1	0	0	0
Refuse Collectors	5	6	1	0	1
Sewage Plant Operators	1	1	0	0	0
Animal Caretakers	5	6	1	0	1
Water Treatment Plant Operators	6	8	2	0	2
Pump Station Operators, Waterworks	6	8	2	0	2
Fuel Pump Attendants &/or Lubricators	2	3	1	0	1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

SANTA CRUZ COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Highway Maintenance Workers	54	69	15	5	20
Gardeners & Groundskeepers	22	28	6	4	10
All Other Laborers & Unskilled Workers	16	20	4	0	4
TOTAL OFFICE CLERICAL WORKERS	98	127	29	17	46
Computer Operators	4	5	1	0	1
Keypunch Operators	5	6	1	0	1
Duplicating Machine Operators	2	3	1	0	1
Stenographers	3	4	1	0	1
Accounting Clerks	6	8	2	1	3
Cashiers	5	6	1	0	1
File Clerks	4	5	1	0	1
General Clerks	32	41	9	8	17
Mail Clerks	1	1	0	0	0
Payroll &/or Timekeeping Clerks	3	4	1	0	1
Personnel Clerks	3	4	1	0	1
Procurement Clerks	3	4	1	0	1
Receptionists	1	1	0	0	0
Secretaries	10	13	3	4	7
Switchboard Operators/Receptionists	1	1	0	0	0
Typists	9	12	3	4	7
Clerical Supervisors	1	1	0	0	0
Court Clerks	2	3	1	0	1
Town Clerks	3	4	1	0	1
TOTAL PLANT CLERICAL WORKERS	12	15	3	0	3
Dispatchers, Police, Fire, & Ambulance	12	15	3	0	3
TOTAL ALL OCCUPATIONS	487	628	141	39	180

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

YAVAPAI COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	73	94	21	6	27
Construction Inspectors	11	14	3	0	3
Chief Executives & Legislators	28	36	8	2	10
All Other Managers & Officers	34	44	10	4	14
TOTAL PROFESSIONAL WORKERS	84	109	25	12	37
Civil Engineers	3	4	1	0	1
Traffic Engineers	1	1	0	0	0
Urban & Regional Planners	4	5	1	0	1
Systems Analysts, EDP	1	1	0	0	0
Photographers	1	1	0	0	0
Accountants & Auditors	5	6	1	0	1
Dietitions &/or Nutritionists	1	1	0	0	0
Lawyers	11	14	3	0	3
Librarians, Professional	4	5	1	0	1
Nurses, Professional	12	16	4	4	8
Paralegal Personnel	2	3	1	0	1
Personnel & Labor Relations Specialists	1	1	0	0	0
Public Relations Practitioners	1	1	0	0	0
Veterinarians	1	1	0	0	0
Community Organization Workers	1	1	0	0	0
Welfare Investigators	1	1	0	0	0
Judges	2	3	1	0	1
Magistrates	12	16	4	4	8
Tax Examiners, Collectors, &/or Revenue Agents	2	3	1	0	1
Assessors	10	13	3	4	7
Group Recreation Workers	7	9	2	0	2
All Other Professional Workers	1	1	0	0	0
TOTAL TECHNICAL WORKERS	18	23	5	0	5
Drafters	7	9	2	0	2
Surveyors	2	3	1	0	1
Civil Engineering Technicians	1	1	0	0	0
All Other Engineering Technicians	2	3	1	0	1
Science Technicians	6	8	2	0	2
TOTAL SERVICE WORKERS	228	297	69	14	83
Janitors, Porters, & Cleaners	21	27	6	4	10
Guards & Doorkeepers	1	1	0	0	0
Supervisors, Nonworking Service	11	14	3	0	3
Nurse's Aides &/or Orderlies	7	9	2	2	4
Fish & Game Wardens	2	3	1	0	1
Child-Care Workers	4	5	1	0	1
Officers, Police	26	34	8	0	8
Detectives, Police	3	4	1	0	1
Police Patrolmen/women	80	104	24	4	28
Parking Enforcement Officers	1	1	0	0	0
Sheriffs	2	3	1	0	1
Bailiffs	2	3	1	0	1
Fire Inspectors	2	3	1	0	1
Fire Fighters	62	81	19	4	23
Officers, Fire	4	5	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	220	285	65	17	82
Mechanics, Automotive	6	8	2	0	2
Mechanics, Automotive, Apprentice	4	5	1	0	1
Electric Meter Installers	1	1	0	0	0
Mechanics, Engineering Equipment	14	18	4	0	4
Water Meter Installers	2	3	1	0	1
Truck Drivers	12	16	4	0	4
Supervisors, Nonworking	1	1	0	0	0
Heavy Equipment Operators	33	43	10	4	14

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

YAVAPAI COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Heavy Equipment Operators, Apprentice	6	8	2	0	2
Industrial Truck Operators	18	23	5	0	5
Maintenance Repairers, General Utility	7	9	2	0	2
Refuse Collectors	14	18	4	0	4
Sewage Plant Operators	1	1	0	0	0
Water Treatment Plant Operators	2	3	1	0	1
Fuel Pump Attendants &/or Lubricators	4	5	1	0	1
Highway Maintenance Workers	29	38	9	4	13
Surveyor Helpers	1	1	0	0	0
Gardeners & Groundskeepers	32	41	9	5	14
All Other Operatives & Semiskilled Workers	7	9	2	0	2
All Other Laborers & Unskilled Workers	26	34	8	4	12
TOTAL OFFICE CLERICAL WORKERS	185	240	55	42	97
Computer Operators	1	1	0	0	0
Keypunch Operators	3	4	1	0	1
Stenographers	18	23	5	4	9
Accounting Clerks	42	54	12	11	23
Bookkeepers, Hand	1	1	0	0	0
Cashiers	6	8	2	1	3
General Clerks	5	6	1	0	1
Library Assistants	8	10	2	4	6
Mail Clerks	3	4	1	0	1
Payroll &/or Timekeeping Clerks	4	5	1	0	1
Secretaries	14	18	4	4	8
Statistical Clerks	1	1	0	0	0
Switchboard Operators/Receptionists	3	4	1	0	1
Typists	52	67	15	17	32
Clerical Supervisors	7	9	2	0	2
Court Clerks	6	8	2	1	3
Town Clerks	7	9	2	0	2
All Other Office Clerical Workers	4	5	1	0	1
TOTAL PLANT CLERICAL WORKERS	31	40	9	4	13
Meter Readers, Utilities	3	4	1	0	1
Production Clerks &/or Coordinators	1	1	0	0	0
Stock Clerks	1	1	0	0	0
Dispatchers, Police, Fire, & Ambulance	26	34	8	4	12
TOTAL ALL OCCUPATIONS	839	1,088	249	95	344

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

YUMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	109	134	25	12	37
Public Administration Inspectors	11	14	3	0	3
Construction Inspectors	9	11	2	0	2
Chief Executives & Legislators	21	26	5	4	9
All Other Managers & Officers	68	84	16	8	24
TOTAL PROFESSIONAL WORKERS	166	205	39	32	71
Civil Engineers	5	6	1	0	1
Electrical & Electronic Engineers	1	1	0	0	0
Chemists	1	1	0	0	0
Urban & Regional Planners	3	4	1	0	1
Systems Analysts, EDP	1	1	0	0	0
Photographers	1	1	0	0	0
Purchasing Agents &/or Buyers	2	2	0	0	0
Accountants & Auditors	12	15	3	1	4
Landscape Architects	1	1	0	0	0
Caseworkers	11	14	3	4	7
Dietitians &/or Nutritionists	1	1	0	0	0
Lawyers	8	10	2	0	2
Librarians, Professional	12	15	3	4	7
Nurses, Professional	15	19	4	4	8
Paralegal Personnel	1	1	0	0	0
Personnel & Labor Relations Specialists	1	1	0	0	0
Community Organization Workers	3	4	1	0	1
Judges	4	5	1	0	1
Magistrates	10	12	2	4	6
Tax Examiners, Collectors, &/or Revenue Agents	1	1	0	0	0
Assessors	12	15	3	4	7
Group Recreation Workers	41	51	10	7	17
All Other Professional Workers	19	23	4	4	8
TOTAL TECHNICAL WORKERS	32	39	7	0	7
Computer Programmers	1	1	0	0	0
Drafters	7	9	2	0	2
Electrical & Electronic Technicians	2	2	0	0	0
Surveyors	1	1	0	0	0
Civil Engineering Technicians	7	9	2	0	2
All Other Engineering Technicians	1	1	0	0	0
Science Technicians	9	11	2	0	2
Licensed Practical Nurses	2	2	0	0	0
Medical & Dental Technicians & Technologists	1	1	0	0	0
All Other Technical Workers	1	1	0	0	0
TOTAL SERVICE WORKERS	325	400	75	26	101
Janitors, Porters, & Cleaners	11	14	3	2	5
Guards & Doorkeepers	2	2	0	0	0
Cooks, Institution	2	2	0	0	0
Supervisors, Nonworking Service	5	6	1	0	1
Nurse's Aides &/or Orderlies	6	7	1	0	1
Recreation Facility Attendants	1	1	0	0	0
Officers, Police	18	22	4	0	4
Detectives, Police	5	6	1	0	1
Police Patrolmen/women	64	79	15	4	19
Correction Officers &/or Jailers	11	14	3	4	7
Sheriffs	80	98	18	4	22
Bailiffs	3	4	1	0	1
Fire Inspectors	2	2	0	0	0
Fire Fighters	67	82	15	4	19
Officers, Fire	18	22	4	0	4
All Other Service Workers	30	37	7	8	15

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
LOCAL GOVERNMENT

YUMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MAINTENANCE & PRODUCTION WORKERS	362	442	80	22	102
Mechanics, Automotive	15	18	3	0	3
Mechanics, Diesel	3	4	1	0	1
Mechanics, Engineering Equipment	5	6	1	0	1
Mechanics, Maintenance	7	9	2	0	2
Mechanics, Radio	1	1	0	0	0
Mechanics, Treatment Plant	6	7	1	0	1
Truck Drivers	31	38	7	0	7
Carpenters	4	5	1	0	1
Crane, Derrick, & Hoist Operators	2	2	0	0	0
Supervisors, Nonworking	16	20	4	0	4
Heavy Equipment Operators	44	54	10	4	14
Line Installers-Repairers	2	2	0	0	0
Line Installers-Repairers, Apprentice	3	4	1	0	1
Machinists	1	1	0	0	0
Maintenance Repairers, General Utility	23	28	5	0	5
Helpers, Trades	3	4	1	0	1
Painters, Maintenance	1	1	0	0	0
Refuse Collectors	15	18	3	0	3
Sewage Plant Operators	6	7	1	0	1
Streetlight Repairers & Servicers	1	1	0	0	0
Watershed Tenders	17	21	4	0	4
Water Treatment Plant Operators	11	13	2	0	2
Welders & Flamecutters	1	1	0	0	0
Fuel Pump Attendants &/or Lubricators	5	6	1	0	1
Highway Maintenance Workers	22	27	5	4	9
Surveyor Helpers	2	2	0	0	0
Gardeners & Groundskeepers	60	73	13	10	23
All Other Operatives & Semiskilled Workers	14	17	3	0	3
All Other Laborers & Unskilled Workers	41	50	9	4	13
TOTAL OFFICE CLERICAL WORKERS	259	317	58	60	118
Bookkeeping &/or Billing Machine Operators	1	1	0	0	0
Computer Operators	6	7	1	0	1
All Other Office Machine Operators	2	2	0	0	0
Stenographers	5	6	1	0	1
Accounting Clerks	39	48	9	3	17
Bookkeepers, Hand	10	12	2	4	6
Cashiers	4	5	1	0	1
File Clerks	7	[illegible]	2	4	6
General Clerks	54	66	12	13	25
Library Assistants	1	1	0	0	0
Mail Clerks	4	5	1	0	1
Personnel Clerks	5	6	1	0	1
Procurement Clerks	1	1	0	0	0
Secretaries	42	51	9	12	21
Switchboard Operators/Receptionists	5	6	1	0	1
Typists	55	67	12	17	29
Clerical Supervisors	6	7	1	0	1
Court Clerks	7	9	2	2	4
Town Clerks	5	6	1	0	1
TOTAL PLANT CLERICAL WORKERS	35	43	8	3	11
Meter Readers, Utilities	6	7	1	0	1
Stock Clerks	5	6	1	0	1
Dispatchers, Vehicle, Service or Work	8	10	2	0	2
Dispatchers, Police, Fire, & Ambulance	16	20	4	3	7
TOTAL SALES WORKERS	1	1	0	0	0
Sales Representatives	1	1	0	0	0
TOTAL ALL OCCUPATIONS	1,289	1,581	292	155	447

METHODOLOGY

Limitations of the Data

The projection methods do not account for cyclical, seasonal, and such external factors as sudden discontinuations or initiations of major governmental programs. The methodology also assumes that the labor market areas are self-contained and generally devoid of significant levels of commuting and migration from one area to another for employment. The occupational data in this publication refers only to employees who earned a wage or salary.

Sample Selection and Response Rate

All agencies of Arizona state government and all units of local government, with the exception of educational and hospital facilities, were identified and a universe survey conducted. The response rates for state and local units were 100 percent and 93.7 percent respectively, with 100 percent of the state and 99.6 percent of the local government employment included in the response.

The U.S. Civil Service Commission provided the OES Program with a complete account of all civilian federal employment for each of the 14 counties as of September 1977. The response rate for federal government units was therefore 100 percent with 100 percent of the employment included. Occupational estimates for September 1979 were generated by applying total federal government employment in September 1979 to the 1977 occupational employment data supplied by the U.S. Civil Service Commission.

The federal government 1979 occupational estimates for Navajo County were calculated by applying a ratio of change in total industry employment from 1977 to 1979 to the September 1977 occupational count. This method of calculation was utilized due to exceptional conditions of the data to assure the most accurate figures possible for the county.

County employment does not always total statewide employment due to rounding and because statewide projections were calculated independently.

1983 Industry Employment

Employment for federal, state, and local government (exclusive of school employment) for Arizona, Maricopa, Pima and the nonmetropolitan counties was projected to 1983 using multiple regression analysis. This procedure consisted of the construction and analysis of a time series utilizing local employment, population projections, and trend factors. Employment projections for each of the nonmetropolitan counties were based on relative importance of each county's employment to the total nonmetropolitan counties' employment.

1983 Occupational Employment

The 1983 occupational employment was calculated by applying adjusted staffing pattern ratios (as determined by the surveys in the case of state and local government and determined by the information supplied from the U.S. Civil Service Commission in the case of federal government) to the industry projections. Adjustments to the ratio reflect national trends of evolving occupational distribution.

JOB OPENINGS

The difference between 1979 and 1983 employment for each occupation represents expected job openings due to growth. Job openings due to separations were calculated by interpolating 1979 and 1983 separation rates for each occupation and applying them to employment through 1983. Job openings due to growth and separations were summed to produce total job openings.

LABOR MARKET INFORMATION PUBLICATIONS
OCCUPATIONAL EMPLOYMENT STATISTICS
BOX 6123, SITE CODE 920B
PHOENIX, ARIZONA 85005

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
EMPLOYMENT SECURITY MAIL
LAB 449

FIRST CLASS MAIL

CONGRESSIONAL INFORMATION 1
SUSAN MYER
7101 WISCONSIN AVE.
WASHINGTON, D.C. 20014

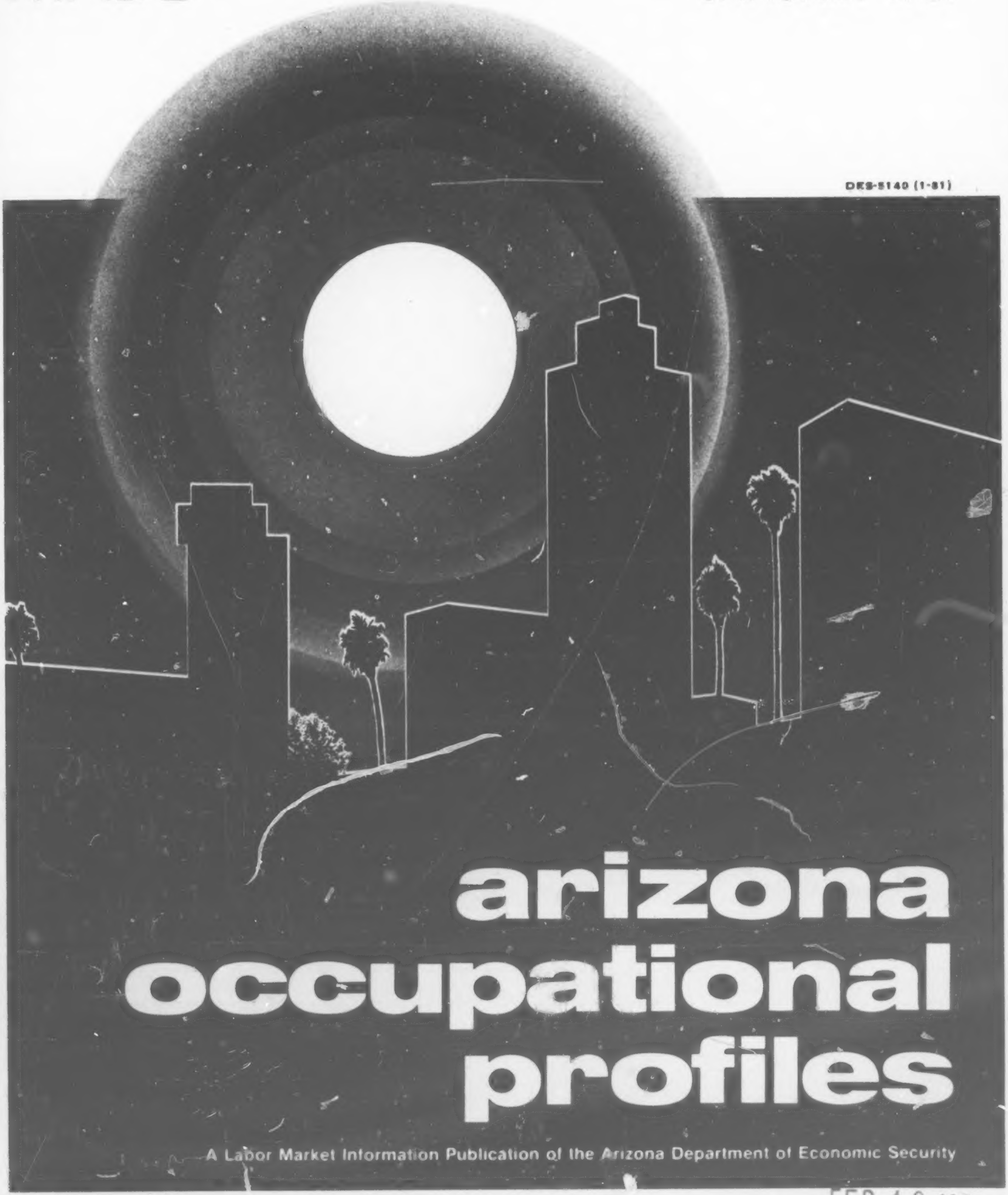
In cooperation with the Bureau of Labor Statistics, U.S. Department of Labor. Preparation of this document was financed in part through the Comprehensive Employment and Training Act (P. L. 93-203), Governor's Special Grant, from the U.S. Department of Labor.

S0465-2.6

TRADE

JANUARY 1981

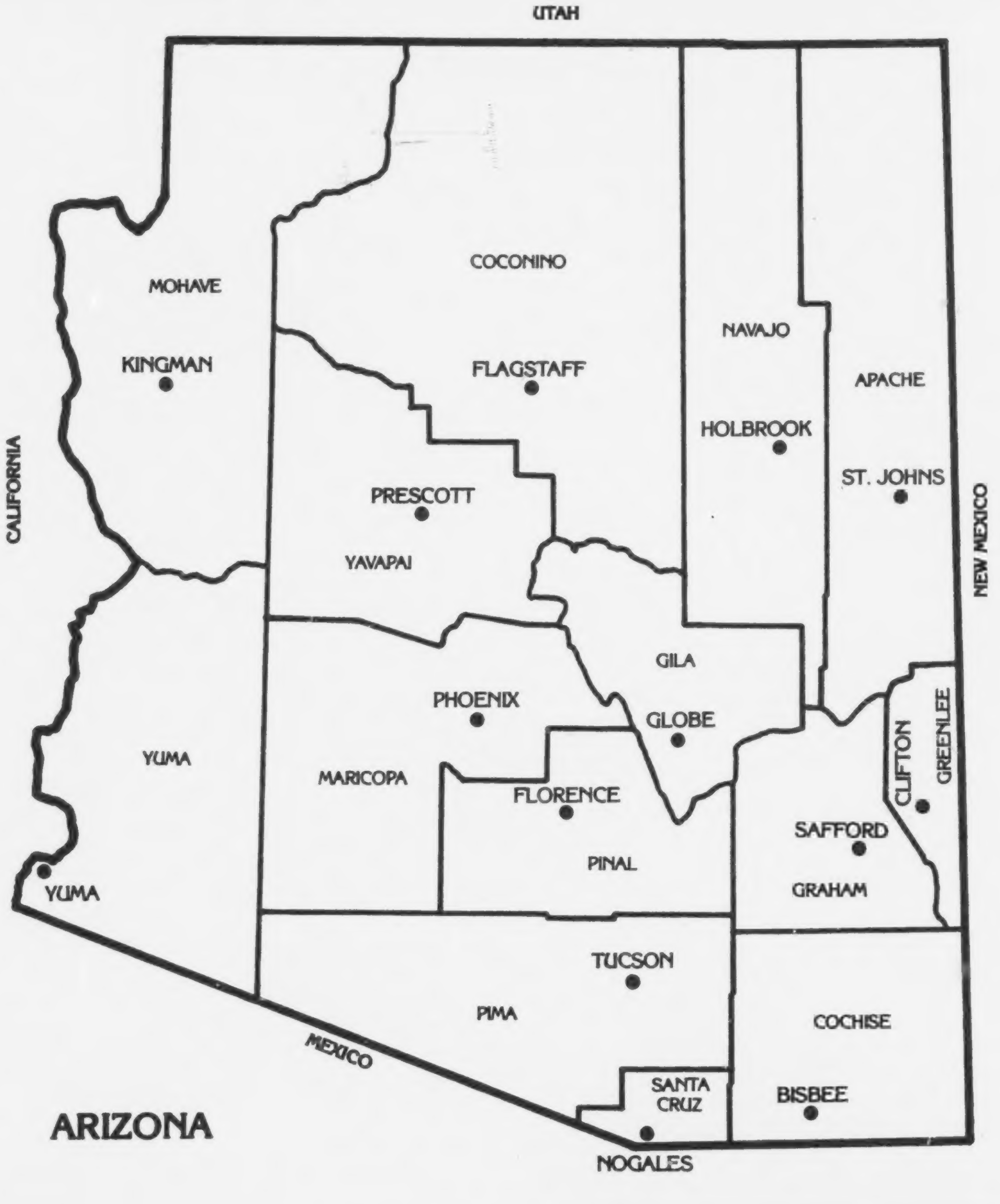
DES-5140 (1-81)



arizona occupational profiles

A Labor Market Information Publication of the Arizona Department of Economic Security

FEB 19 1981


UTAH
MOHAVE
KINGMAN
COCONINO
FLAGSTAFF
NAVAJO
HOLBROOK
APACHE
ST. JOHNS
CALIFORNIA
PRESCOTT
YAVAPAI
NEW MEXICO
GILA
GLOBE
PHOENIX
MARICOPA
YUMA
FLORENCE
PINAL
GREENLEE
CLIFTON
SAFFORD
GRAHAM
YUMA
TUCSON
PIMA
COCHISE
MEXICO
SANTA CRUZ
BISBEE
ARIZONA
NOGALES

OCCUPATIONAL PROFILES

This Occupational Profile is one in a series of publications produced from information developed by the Occupational Employment Statistics survey. The survey is used to collect employment data, by county, for over 1,100 occupations in Arizona. From these surveys, which require the cooperation of the Arizona business community, current employment in the various occupations is determined, and from this an occupational outlook is formulated. The Occupational Profiles contain the survey findings and examines, individually, the industries of Arizona.

Industries surveyed and for which profiles are now available include:

Mining
Finance, Insurance, and Real Estate
Construction
Services
Government
Trade
Education Services
Manufacturing
Transportation, Communications, and Public Utilities

For further information, or to comment on any aspect of this program, please write to the address on the back cover.

INDUSTRY INFORMATION

INDUSTRY DESCRIPTION

Occupational estimates for Arizona's wholesale and retail trade industries are provided in this publication for the state and counties.

Wholesale trade includes establishments or places of business primarily engaged in selling merchandise to retailers; to industrial, commercial, institutional, farm, or professional business users; or to other wholesalers. Wholesale establishments may also act as agents or brokers in buying merchandise for, or selling merchandise to, such persons or companies as mentioned above.

Retail trade, on the other hand, includes establishments engaged in selling merchandise for personal or household consumption, and rendering services incidental to the sale of the goods. Establishments such as lumber yards and paint, glass, and wallpaper stores are included in retail trade if they sell to the general public, even if a higher proportion of their sales is made to contractors. However, establishments that sell exclusively to business establishments, institutional and industrial users, or contractors, are classified in wholesale trade.

A more detailed description of the types of firms categorized in the wholesale and retail trade industries is provided in the Standard Industrial Classification (SIC) Manual under SIC codes 50 through 59.

INDUSTRY CHARACTERISTICS

In terms of employment, the trade industry is the largest in Arizona. Buoyed by a burgeoning population and the strength of tourism in the state, this labor-intensive industry has gained its current prominence. Wholesale and retail trade establishments employed more than 234,000 wage earners in 1979, which represented approximately 24 percent of Arizona's wage and salary employment. This employment is localized to Maricopa County to a greater degree than is employment across all industries, as seen in the graphs below.

FIGURE 1: TRADE EMPLOYMENT
BY AREA - MAY 1979

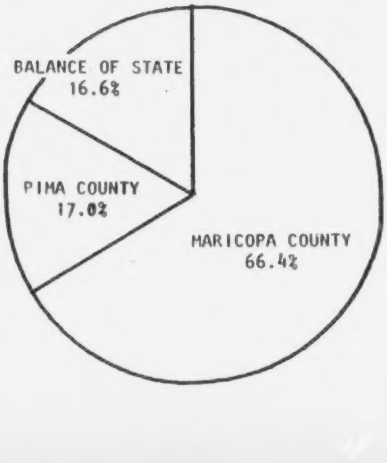
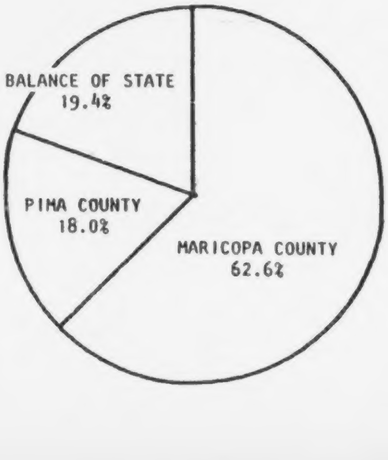


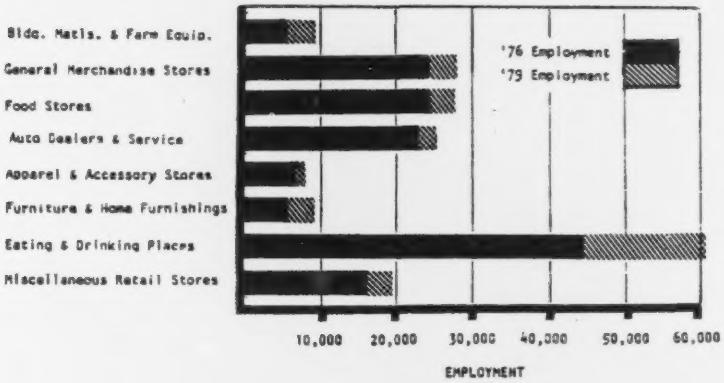
FIGURE 2: TOTAL ARIZONA EMPLOYMENT
BY AREA - MAY 1979



RETAIL TRADE

The bulk (80 percent) of employment in the trade industry is in the retail sector - largely due to the employment in eating and drinking places. These establishments, which sell prepared foods and drinks for consumption on the premises, numbered approximately 3,522 and employed nearly 61,000 workers in 1979. Nine hundred of these establishments were primarily drinking establishments and the remaining 2,600 were primarily eating places. Relative to population, Gila County has the most drinking places and Apache and Navajo counties the least (alcoholic beverages cannot be sold on Indian reservations). Restaurants are most concentrated in Mohave and Yavapai counties and least concentrated in Apache County relative to their populations. Based on total employment in the industry, however, Maricopa leads the way with nearly 36,000 restaurant workers and 1,900 tavern workers in 1979, followed by Pima County with 11,000 and 1,000 workers respectively. Coconino County leads all counties in terms of the number of restaurant workers relative to population.

FIGURE 3: TRADE EMPLOYMENT, 1976 AND 1979



Food stores, general merchandise stores, and auto dealers and service stations follow eating and drinking places when ranked according to employment. Of those working in retail food stores, ninety-four percent are employed in establishments that sell a variety of foods (i.e. supermarkets, grocery stores, and delicatessens) rather than specialized foods (bakeries, fish markets, etc.).

In motor vehicle related establishments, employment is concentrated in firms selling both new and used automobiles.

As a percentage of the total employment in the "miscellaneous retail" category, drug and proprietary stores dominate (33 percent), followed by bottled gas dealers (8 percent), liquor stores (7 percent), and jewelry stores (7 percent).

FIGURE 4: WAGE AND SALARY EMPLOYMENT
IN MOTOR VEHICLE AND RELATED ESTABLISHMENTS
1979

	FIRMS	EMPLOY.
Motor Vehicle Dlrs. (New & Used)	214	10,135
Motor Vehicle Dlrs. (Used)	171	679
Gasoline Service Stations	1,037	6,970
Auto & Home Supply Stores	585	5,909
Motorcycle Dealers	78	476
Automotive Dealers, Other	37	548
Rec. & Utility Trailer Dealers	34	346
Boat Dealers	37	207

The table below provides an index of employment to population. For example, the comparatively large index in Santa Cruz County's general merchandise stores indicates more than four times as many workers, per population, as is employed in Yuma County's general merchandising industry. A predominately rural county with an active commercial center (Nogales), trade is especially important to the Santa Cruz economy.

The reader is reminded that employment data in this publication represent those workers earning a wage and salary and excludes self-employed and unpaid family workers. This is especially significant in retail trade which is characterized by many "mom and pop" operations and sole proprietorships.

FIGURE 5: TRADE EMPLOYMENT TO POPULATION INDEX, 1979

	APACHE	COCHISE	COCONINO	GILA	GRAHAM & GREENLEE	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA
Bldg. Matls. & Farm Equip.	1	2	2	3	3	4	4	1	1	1	3	4	3
General Merch. Stores	5	8	11	5	8	12	6	6	11	2	41	8	10
Food Stores	4	8	8	10	8	12	11	7	9	8	17	10	11
Auto Dealers & Service	3	6	11	7	8	10	14	10	9	6	7	8	11
Apparel & Access. Stores	4	2	2	1	1	4	1	1	3	1	12	1	2
Furniture & Home Furnishings	0	1	2	1	1	5	1	1	3	0	4	2	2
Eating Places	3	12	29	14	8	25	13	11	21	11	19	21	25
Drinking Places	0	2	2	2	1	1	2	1	2	1	0	1	2
Misc. Retail	2	4	6	4	3	10	5	3	7	3	7	6	5

Maricopa County accounted for nearly $8 billion of the estimated total retail sales of $12.7 billion in Arizona in 1979, followed by Pima County with sales of slightly more than $2 billion. Growth in retail sales was strong in nearly all counties between 1978 and 1979, with some of the largest increases registered by nonmetropolitan counties.

FIGURE 6: ARIZONA RETAIL SALES BY COUNTY

County	1978	1979	% Change
Apache	$ 52,495,000	$ 64,229,000	+22.4%
Cochise	262,222,000	303,323,000	+15.7
Coconino	319,468,000	372,572,000	+16.6
Gila	119,635,000	144,678,000	+20.9
Graham	76,510,000	89,733,000	+17.3
Greenlee	29,825,000	36,758,000	+23.2
Maricopa	6,670,390,000	7,854,996,000	+17.8
Mohave	207,075,000	252,080,000	+21.7
Navajo	232,002,000	310,020,000	+33.6
Pima	1,860,944,000	2,258,808,000	+21.4
Pinal	280,158,000	267,766,000	- 4.4
Santa Cruz	84,241,000	112,463,000	+33.5
Yavapai	209,394,000	255,989,000	+22.3
Yuma	355,572,000	417,929,000	+17.5
TOTAL	$10,759,931,000	$12,741,344,000	+18.4%

Source: Valley National Bank

WHOLESALE TRADE

Employment in wholesale trade is dominated by Maricopa County, in part, because of its location at the hub of the state's highway network. The dominance is especially evident in the durable sector where Maricopa County employs 83 percent of those working in wholesale trade establishments versus 75 percent in nondurables.

In the balance of state, however, employees in the wholesaling of nondurable goods outnumber those in the durable sector by more than two to one. Yuma and Santa Cruz counties are the primary reason for this, as the two counties employ nearly 2,000 in the wholesale distribution of fresh fruits and vegetables. With the exception of Mohave County, wholesale trade employment in the remaining nonmetropolitan counties is more equally divided between durable and nondurable. The industry in Mohave County is dominated by the wholesaling of durables.

FIGURE 7: ARIZONA'S WHOLESALE TRADE INDUSTRY BY COUNTY, 1979

	ESTAB.	EMPLOY.
Maricopa	3,183	37,508
Pima	466	4,841
Yuma	102	1,715
Santa Cruz	130	741
Pinal	46	483
Coconino	55	439
Cochise	52	384
Mohave	40	311
Yavapai	44	169
Graham/Greenlee	21	135
Navajo	24	100
Gila	21	89
Apache	10	49

The miscellaneous wholesale goods industry, which is ranked fourth in the above table, is dominated by wholesalers of farm supplies such as animal feeds, agricultural chemicals, pesticides, and seeds.

In contrast to measurements of ranking in terms of employment, rankings by dollar volume of sales find wholesalers of groceries and related products leading the way with 1977 sales of $1.9 billion, followed by wholesalers of motor vehicles and automotive parts and supplies with sales of $1.2 billion.

Statewide, wholesalers of machinery, equipment, and supplies lead the industry, in terms of employment, with more than 12,000 workers in 1979. Firms in this category are primarily engaged in two activities: first, the wholesaling of commercial machines and equipment, such as office, store, and business machines; commercial food service equipment; and fountain and store fixtures; and second, the marketing of industrial machinery and equipment, such as metal working tools, food industries machinery, and industrial trucks and tractors. Behind the wholesaling of machinery, equipment, and supplies are those wholesaling food and related products, with 8,000 workers in 1979.

FIGURE 8: ARIZONA'S WHOLESALE TRADE INDUSTRY 1979

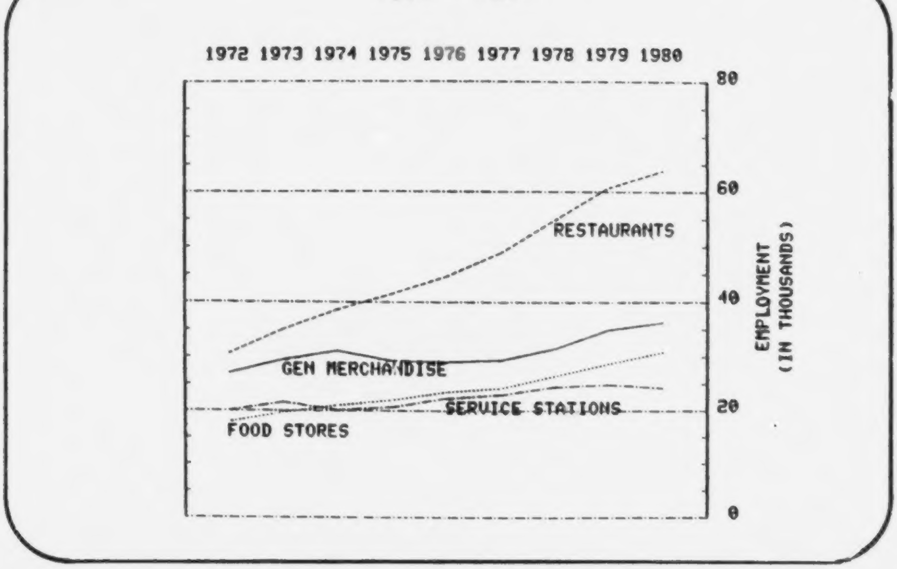
	FIRMS	EMPLOY.
Machinery, Equip., and Supplies	1,068	12,580
Groceries	519	8,028
Electrical Goods	395	4,331
Miscellaneous Wholesale Goods	545	4,145
Motor Vehicle Parts and Supplies	243	3,299
Lumber and Construction Matls.	185	2,197
Hardware, Plumbing, and Heating	244	2,137
Furniture and Home Furnishings	157	1,704
Alchoholic Beverages	79	1,662
Petroleum and Petroleum Products	122	1,454
Drugs and Sundries	142	1,412
Paper and Paper Products	121	1,097
Metals and Minerals, Exc. Petrol.	73	801
Chemicals	108	787
Apparel and Notions	92	520
Sporting, Recreation, and Hobby	61	475
Farm Products	40	335
TOTAL	4,194	46,964

INDUSTRY TRENDS

Over the past decade, trade has maintained its position as the industry employing the most workers in Arizona. Continued expansion in population, tourism, industrial development, and income have resulted in relatively consistent increases in the number of retail establishments in operation and in the volume of business transacted. In 1979, slightly more than 24 percent of all Arizona workers were employed in the trade industry, as compared to approximately 23 percent in 1970. Eighty-six thousand jobs have been added in the retail sector and 21,000 in wholesale trade in the past nine years. Since 1970, employment in both retail and wholesale trade have grown approximately 85 percent compared to the change for all Arizona industries of 77 percent.

Employment growth in retail trade's four major sectors is shown below for the years 1972 through 1980.

FIGURE 9: RETAIL TRADE EMPLOYMENT
1972 - 1980



During the last three years, all the major categories of trade recorded increases in employment. Retailers of building materials and farm equipment have shown the most dramatic growth, closely followed by establishments selling furniture and home furnishings. Population growth provided much of the stimulus for expansion in these two retail sectors as new homeowners and renters repair, furnish, and/or upgrade their residences. An annual 5.3 percent population increase in this period has added more than 360,000 Arizona residents compared to an annual population growth of 3.9 percent for the previous 3-year period. Over the past two decades, the state's compounded population growth rate averaged 3.8 percent compared to 1.0 percent for the United States. Arizona's projected growth rate through the year 2,000 is more than three times the U.S. rate.

For the decade, eating and drinking places claimed the greatest growth - both in actual employment and percentage change - by increasing its employment by a whopping 140 percent between 1970 and 1979. Growth in restaurant employment will continue to be strong to accomodate an expanding population and the growing number of families with two wage earners. As more wives enter the work force, many families will find dining out a welcome convenience.

FIGURE 10: GROWTH IN ARIZONA'S RETAIL TRADE INDUSTRIES

1970 - 1979

	Growth		
	Percent	Absolute	RANK
Eating & Drinking Places	139.5%	35,422	1
Bldg. Matls. & Farm Equip.	101.4	4,739	2
Apparel & Accessories	94.7	3,859	3
Furniture & Home Furnishings	91.3	4,271	4
Food Stores	88.7	13,395	5
General Merchandise	43.4	8,613	6
Auto Dealers & Service	39.6	7,173	7

1976 - 1979

	Growth	
	Percent	Absolute
Bldg. Matls. & Farm Equip.	49.4%	3,114
Furniture & Home Furnishings	49.2	2,950
Eating & Drinking Places	37.6	16,627
Apparel & Accessories	20.9	1,374
Food Stores	16.7	4,084
General Merchandise	16.0	3,922
Auto Dealers & Service	10.9	2,476

The wholesale sector has seen, over the past decade, the greatest employment growth in the wholesaling of electrical goods; hardware, plumbing, and heating equipment; and dry goods and apparel, which have grown 130, 94, and 73 percent, respectively. Since 1976, however, the wholesaling of machinery, equipment, and supplies, and motor vehicles and auto supplies have ranked as the second and third fastest-growing industries behind electrical goods.

Like population, tourism plays an important role in the Arizona economy and has a particularly strong impact on the trade industry. Tourists and in-state travelers contributed more than $4 billion to the state's economy in 1979 according to the Arizona Office of Tourism. Especially responsive to tourism is employment in restaurants which has shown marked increases in recent years as a result of both population growth and the active tourism industry. Developments affecting fuel availability and costs have caused some recent dampening of highway tourism (those driving into and through Arizona); however, in-state travelers and airline tourist expenditures have picked up the slack. An estimated 15 percent of all state visitors came from foreign countries in 1978 and increased efforts are being made to attract more international clientele. Despite some uncertainties, tourism should continue to provide a boost to Arizona's retail trade industry.

The prevailing trend in personal income growth will also favorably affect the trade industry. Personal income in Arizona in 1979 was up more than 17 percent over 1978, compared to the 12.7 percent increase registered by the entire United States. Only Wyoming recorded a greater increase. Per capita personal income in Arizona also rose (14 percent) in this time period, averaging $8,423 in 1979 compared to $7,411 in 1978.

Even with these favorable trends, expansion of trade employment is expected to moderate. Economic activity was relatively high going into the projection period and, in light of the 1979-80 economic downturn, forecasted industry growth has been adjusted accordingly. Statewide trade employment is anticipated to expand by approximately 32,000 between 1979 and 1983 compared to 42,000 between 1975 and 1979.

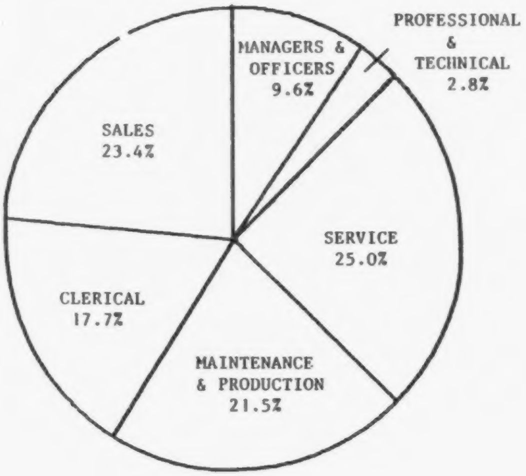
OCCUPATIONAL INFORMATION

OCCUPATIONAL ANALYSIS

The prominence of restaurant employment in the trade industry contributes to the high ranking of service workers in the occupational distribution shown in Figure 11. Of the 58,000 service workers in Arizona's trade industry, nearly 15,000 are waiters or waitresses and another 13,000 are food preparation and service workers in fast food restaurants. Kitchen helpers rank a distant third with 5,700.

Many waiters and waitresses and food preparation and service workers in fast food restaurants are students - most of whom work part-time. Because turnover is particularly high among part-time workers, job openings in these occupations will continue to be plentiful.

FIGURE 11: OCCUPATIONS IN ARIZONA'S TRADE INDUSTRIES
MAY 1979



The statewide distribution of occupations is fairly consistent with county distributions with the following notable exceptions: In Graham and Greenlee counties, the maintenance and production class is largest, and service workers, which ranks first in the state, ranks fourth. In Santa Cruz County, clerical workers dominate - representing nearly 32 percent of the employment in trade.

Rising sales volume and longer store hours will bolster employment demand through 1983 for sales workers. Employment will increase more slowly than the volume of sales, however, as self-service - already seen in foodstores - is extended to drug, variety, and other kinds of stores.

Retail trade will continue to be an excellent source of job opportunities for high school graduates. Job openings in sales are plentiful because retail selling is a large occupation characterized by relatively high turnover. Most openings occur as experienced sales workers leave their jobs. In addition to full-time jobs, there are many opportunities for part-time workers, as well as temporary workers, during peak selling periods such as the Christmas season.

Valuable qualities for prospective sales workers, according to Chuck Huskinson, District Personnel Manager at J. C. Penney, include "a pleasant personality, neat appearance, and the ability to deal with a variety of people." Inexperienced sales workers in department stores typically begin in departments where customers need little assistance. As they gain experience and seniority, they move to positions of greater responsibility. Selling "big ticket" items - large appliances, furniture, rugs, and the like - usually requires the most knowledge of the product and the greatest talent for persuasion. These departments, therefore, have the most experienced - and the highest paid - sales workers.

Retail selling remains one of the few fields in which employees can advance to executive jobs regardless of educational background. Although large retail businesses generally hire college graduates as management trainees, some sales workers are promoted to managerial and administrative positions.

Maintenance and production workers is the third largest occupational class accounting for more than 21 percent of the industry's employment. Delivery and route workers, automotive mechanics, and sales floor stock clerks are the three largest occupations in this class. Delivery and route drivers are most concentrated in wholesale trade and it will be in this sector that most of these job openings will transpire in the years ahead. Applicants with sales experience and good driving records will have the best chances of being hired for these jobs.

The fourth ranking occupational class - clerical - represents workers common to nearly all wholesale and retail operations. Cashier is by far the largest occupation in this class, employing nearly 14,000 workers in Arizona in 1979. General office clerk ranks a distant second with 5,700 workers.

Supermarkets, movie theaters, restaurants, and general merchandise stores are among the many businesses that employ cashiers to handle payments from customers. However, cashiers are needed in businesses and organizations of all types and sizes, and many find jobs in department stores, drugstores, shoe stores, hardware stores and other kinds of retail stores. Cashiers operate several types of machines, and a growing number operate electronic registers, computerized point-of-sale registers, or computerized scanning systems.

Employment opportunities for cashiers will be plentiful in the next decade as the retail and wholesale trade industries expand, and, more importantly, as cashiers retire, die, or change jobs. Cashier is often an entry level position and turnover is relatively high; therefore, a consistent demand for these workers can be expected.

The widespread adoption of automated checkout systems, however, will somewhat dampen the employment growth of cashiers and other workers. These systems record the description and price of each item, add the tax, print out a receipt, and often maintain records of the store's inventory.

For many of the entry level clerical positions, including cashier, employers look for academic backgrounds which include courses in business arithmetic, bookkeeping, typing and other business subjects. However, the age of computer technology will impact on clerical occupations and will have an increasing influence on the nature of these jobs. Anson White, Departmental Vice President of Human Resources at Associated Grocers, which is one of the largest wholesale firms in Arizona, is seeing evidence of this trend already. According to Mr. White, "the job applicant who has academic or work experience with computer - related operations, in addition to the traditional qualifications, certainly has an advantage in the job market." Mr. White confirms that Associated Grocers, like most other large firms, will increasingly rely on the computer's capabilities to bill customers, pay employees, and maintain records of movement of materials.

Figure 12 lists, by county, those occupations most frequently reported and those with the greatest number of projected openings. The "openings" column represents job opportunities due to growth of the industry and separations from the labor force. They do not reflect openings resulting from turnover. For comparison, the most frequently reported occupations for the state rank as follows:

	Estimated 1979 Employment	Percent of State Trade Employment
Sales Clerks (Exclude Cashiers)	23,696	12.3
Sales Representatives, Nontechnical	20,309	8.7
Waiters or Waitresses	14,706	6.3
Cashiers	13,943	6.0
Food Preparation and Service Workers, Fast Food Restaurant	12,964	5.6
Store Managers	9,971	4.3
	100,589	43.3

Sales clerks and sales representatives head the list. The distinction between these two occupations is that sales representatives possess a knowledge of the goods or services sold; whereas, sales clerks sell a variety of goods and services not requiring much more knowledge than the price.

FIGURE 12: LARGEST AND HIGHEST DEMAND OCCUPATIONS IN THE TRADE INDUSTRY

MAY 1979				
LARGEST OCCUPATIONS	ESTIMATED EMPLOYMENT	PCT. OF COUNTY TOTAL	HIGHEST DEMAND OCCUPATIONS 1979-1983	OPENINGS 1979-1983
APACHE				
Sales Clerks (Exc. Cashiers)	267	26.3	Sales Clerks (Exc. Cashiers)	54
Cashiers	161	15.9	Cashiers	53
Waiters or Waitresses	68	6.7	Waiters or Waitresses	22
Managers, Store	64	6.3	Sales Reps., Nontechnical	13
Fuel Pump Attendants &/or Lubricators	54	5.3	Managers, Store	12
	614	60.6		154
COCHISE				
Sales Clerks (Exc. Cashiers)	610	14.9	Waiters or Waitresses	111
Waiters or Waitressess	353	8.6	Sales Clerks (Exc. Cashiers)	107
Cashiers	292	7.1	Cashiers	89
Food Preparation & Service Workers, Fast Food Restaurants	264	6.4	Food Preparation & Service Workers, Fast Food Restaurants	70
Sales Reps., Nontechnical	232	5.7	Sales Reps., Nontechnical	54
	1,751	42.7		431
COCONINO				
Sales Clerks (Exc. Cashiers)	723	11.7	Waiters or Waitresses	192
Waiters or Waitress	567	9.2	Sales Clerks (Exc. Cashiers)	115
Food Preparation & Service Workers, Fast Food Restaurant	456	7.4	Cashiers	143
Cashiers	435	7.0	Food Preparation & Service Workers, Fast Food Restaurant	133
Managers, Store	313	5.1	Kitchen Helpers	79
	2,494	40.3		4,692
GILA				
Sales Clerks (Exc. Cashiers)	260	14.8	Waiters or Waitresses	65
Cashiers	195	11.1	Cashiers	64
Waiters or Waitresses	191	10.9	Sales Clerks (Exc. Cashiers)	52
Food Preparation & Service Workers, Fast Food Restaurant	148	8.4	Food Preparation & Service Workers, Fast Food Restaurant	43
Sales Reps., Nontechnical	112	6.4	Sales Reps., Nontechnical	30
	906	51.7		254

FIGURE 12: LARGEST AND HIGHEST DEMAND OCCUPATIONS IN THE TRADE INDUSTRY (cont'd.)

MAY 1979				
LARGEST OCCUPATIONS	ESTIMATED EMPLOYMENT	PCT. OF COUNTY TOTAL	HIGHEST DEMAND OCCUPATIONS 1979-1983	OPENINGS 1979-1983
GRAHAM & GREENLEE				
Sales Clerks (Exc. Cashiers)	297	19.5	Sales Clerks (Exc. Cashiers)	53
Cashiers	150	9.9	Cashiers	45
Managers, Store	86	5.7	Waiters or Waitresses	16
Stock Clerks, Sales Floor	79	5.2	Managers, Store	15
Delivery & Route Workers	62	4.1	Sales Reps., Nontechnical	14
	674	44.3		143
MARICOPA				
Sales Clerks (Exc. Cashiers)	18,547	12.0	Sales Reps., Nontechnical	4,653
Sales Reps., Nontechnical	15,108	9.8	Sales Clerks (Exc. Cashiers)	4,594
Waiters or Waitresses	8,769	5.7	Waiters or Waitresses	3,421
Food Preparation & Service Workers, Fast Food Restaurant	8,566	5.5	Food Preparations & Service Workers, Fast Food Restaurant	2,915
Cashiers	7,621	4.9	Cashiers	2,909
	58,611	38.0		18,492
MOHAVE				
Food Preparation & Service Workers, Fast Food Restaurant	442	13.3	Food Preparation & Service Workers, Fast Food Restaurant	162
Cashiers	382	11.5	Cashiers	156
Sales Clerks (Exc. Cashiers)	341	10.2	Waiters or Waitresses	113
Waiters or Waitresses	269	8.1	Sales Clerks (Exc. Cashiers)	94
Managers, Store	173	5.2	Saless Reps., Nontechnical	52
	1,607	48.2		577
NAVAJO				
Sales Clerks (Exc. Cashiers)	524	15.6	Waiters or Waitresses	110
Waiters or Waitresses	338	10.0	Cashiers	104
Cashiers	324	9.6	Sales Clerks (Exc. Cashiers)	99
Fuel Pump Attendants &/or Lubricators	250	7.4	Food Preparation & Service Workers, Fast Food Restaurant	55
Managers, Store	224	6.7	Fuel Pump Attendants &/or Lubricators	46
	1,660	49.3		414

FIGURE: 12: LARGEST AND HIGHEST DEMAND OCCUPATIONS IN THE TRADE INDUSTRY (cont'd.)

MAY 1979				
LARGEST OCCUPATIONS	ESTIMATED EMPLOYMENT	PCT. OF COUNTY TOTAL	HIGHEST DEMAND OCCUPATIONS 1979-1983	OPENINGS 1979-1983
PIMA				
Sales Clerks (Exc. Cashiers)	5,009	12.7	Sales Clerks (Exc. Cashiers)	1,237
Sales Reps., Nontechnical	3,070	7.8	Cashiers	1,094
Cashiers	2,874	7.3	Waiters or Waitresses	1,083
Waiters or Waitresses	2,783	7.1	Sales Reps., Nontechnical	944
Food Preparation & Service Workers, Fast Food Restaurant	2,069	5.3	Food Preparation & Service Workers, Fast Food Restaurant	703
	15,805	40.1		5,061
PINAL				
Sales Clerks (Exc. Cashiers)	519	14.6	Cashiers	103
Cashiers	329	9.3	Sales Clerks (Exc. Cashiers)	97
Waiters or Waitresses	270	7.6	Waiters or Waitresses	88
Managers, Store	199	5.6	Sales Reps., Nontechnical	43
Sales Reps., Nontechnical	177	5.0	Managers, Store	37
	1,494	42.1		368
SANTA CRUZ				
Sales Clerks (Exc. Cashiers)	487	17.5	Sales Clerks (Exc. Cashiers)	135
Cashiers	257	9.2	Cashiers	106
Sales Reps., Nontechnical	228	8.2	Sales Reps., Nontechnical	77
Managers, Store	138	4.9	Waiters or Waitresses	43
Stock Clerks. Stockroom, Warehouse, or Stockage Yard	128	4.6	General Clerks, Office	43
	1,238	44.4		404
YAVAPAI				
Sales Clerks (Exc. Cashiers)	530	13.4	Waiters or Waitresses	166
Waiters or Waitresses	437	11.0	Sales Clerks (Exc. Cashiers)	127
Cashiers	323	8.2	Cashiers	120
Kitchen Helpers	219	5.5	Kitchen Helpers	73
Sales Reps., Nontechnical	217	5.5	Sales Reps., Nontechnical	65
	1,726	43.6		551
YUMA				
Cashiers	600	8.4	Cashiers	261
Sales Clerks (Exc. Cashiers)	582	8.2	Waiters or Waitresses	224
Waiters or Waitresses	507	7.1	Sales Clerks (Exc. Cashiers)	172
Sales Reps., Nontechnical	469	6.6	Sales Reps., Nontechnical	169
Food Preparation & Service Workers, Fast Food Restaurant	403	5.7	Food Preparation & Service Workers, Fast Food Restaurant	158
	2,561	36.0		984

OCCUPATIONAL STRUCTURE

The following fourteen tables provide employment estimates and projected employment and job openings for the counties and the State. Graham and Greenlee counties have been combined due to their close proximity, similiar economies, and size.

When using the data, please note the following:

1) The data reflects full and part-time wage and salary employment only and does not include self-employed or unpaid family workers.

2) Total job openings represent the number of openings due to growth of the industry and separations from the labor force. They do not account for labor turnover i.e., openings created when a worker changes jobs, leaving the job to be filled by someone else. These vacancies are generally the largest source of job openings.

3) To eliminate the possible disclosure of confidential employer information, occupations have been added to the appropriate "all other" or residual category if: less than three firms reported a single occupation; one firm reported more than 50 percent of the occupational estimate; two firms combined reported more than 75 percent of the occupational estimate.

4) The projection technique does not possess the degree of accuracy that may be implied by small employment changes and demand figures.

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	22,220	9.6	24,911	9.4	5,476
Directors, Food & Beverage &/or Managers, Catering	201	0.1	225		55
Managers, Merchandise	1,661	0.7	1,862		359
Managers, Store	9,971	4.3	11,179		2,423
Managers, Automobile Service Department	520	0.2	583		127
Managers, Automobile Parts Department	383	0.1	429		93
Wholesalers	2,425	1.0	2,719		590
Managers, Restaurant, Coffee Shop, or Liquor Establishment	3,720	1.6	4,171		1,019
All Other Managers & Officers	3,339	1.4	3,743		810
TOTAL PROFESSIONAL WORKERS	5,142	2.2	5,850	2.2	1,382
Electrical & Electronic Engineers	176	.1	200		32
Mechanical Engineers	159	.1	181		30
All Other Engineers	19	.0	22		3
Chemists	18	.0	20		2
Systems Analysts, Electronic Data Processing	164	.1	187		29
Purchasing Agents &/or Buyers	18	.0	20		5
Buyers	1,463	.6	1,664		411
Accountants & Auditors	694	.3	790		196
Commercial Artists	71	.0	81		22
Writers &/or Editors	26	.0	30		8
Musicians, Instrumental	147	.1	167		47
Personnel & Labor Relations Specialists	135	.1	154		35
Pharmacists	733	.3	834		235
Public Relations Practitioners	6	.0	7		1
Designers	779	.3	886		173
All Other Professional Workers	534	.2	608		154
TOTAL TECHNICAL WORKERS	1,483	.6	1,687	.6	287
Computer Programmers	114	.0	130		21
Drafters	39	.0	41		9
Electrical & Electronic Technicians	1,097	.5	1,248		201
All Other Engineering Technicians	31	.0	35		8
Pharmacy Helpers	9	.0	10		5
All Other Technical Workers	196	.0	223		43
TOTAL SERVICE WORKERS	58,059	25.0	65,868	25.0	19,039
Janitors, Porters, & Cleaners	2,693	1.2	3,055		780
Guards & Doorkeepers	352	.2	399		62
Bakers	382	.2	433		117
Bartenders	2,641	1.1	2,996		725
Dining Room Attendants, Bartender Helpers, &/or Cafeteria Attendants	3,256	1.4	3,694		596
Butchers &/or Meat Cutters	1,353	.6	1,535		292
Butchers &/or Meat Cutters, Apprentice	111	.0	126		23
Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop	1,396	.6	1,584		540
Kitchen Helpers	5,713	2.5	6,481		1,922
Waiters or Waitresses	14,706	6.3	16,684		5,684
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	2,494	1.0	2,829		942
Cooks, Short Order &/or Specialty Fast Foods	4,056	1.7	4,602		1,223
Cooks, Restaurant	4,243	1.8	4,814		1,279
Cooks, Restaurant, Apprentice	79	.0	88		22
Food Preparation & Service Workers, Fast Food Restaurant	12,964	5.6	14,708		4,366
Pantry, Sandwich &/or Coffee Makers	564	.2	640		190
All Other Food Service Workers	7	.0	8		1
Cosmetologists &/or Hairstylists	178	.1	202		80

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Supervisors, Nonworking Service	322	.1	365		68
Checkers, Fitting Room	123	.1	140		29
Store Detectives	302	.1	343		53
All Other Service Workers	125	.1	142		45
TOTAL MAINTENANCE & PRODUCTION WORKERS	49,947	21.5	56,840	21.5	10,757
Mechanics, Aircraft	109	.0	124		19
Mechanics, Automotive	4,764	2.0	5,421		950
Mechanics, Automotive, Apprentice	219	.1	249		43
Body Repairers, Automotive	721	.3	821		142
Body Repairers, Automotive, Apprentice	21	.0	24		3
Bicycle Repairers	75	.0	85		14
Diesel Mechanics	639	.3	727		129
Diesel Mechanics, Apprentice	99	.0	113		22
Electric Tool Repairers	19	.0	22		3
Farm Equipment Mechanics	79	.0	90		15
Engineering Equipment Mechanics	768	.3	874		153
Engineering Equipment Mechanics, Apprentice	68	.0	77		13
Marine Mechanics &/or Repairers	41	.0	47		10
Mechanics, Maintenance	110	.0	125		23
Office Machine &/or Cash Register Servicers	472	.2	537		98
Refrigeration and Air Conditioning Mechanics	130	.1	148		26
Television Servicers & Repairers, Radio &/or Tape Recorder Repairers	273	.1	311		55
Television Servicers & Repairers, Radio &/or Tape Recorder Repairers, Apprentice	13	.0	15		2
Coin Machine Servicers &/or Vending Machine Repairers	196	.1	223		41
Motorboat Mechanics	27	.0	31		4
Gas and Electric Appliance Repairers	551	.2	627		115
All Other Mechanics and Repairers	424	.2	483		89
Truck Drivers	2,550	1.1	2,902		490
Automobile Repair Service Estimators	133	.1	151		26
Cabinetmakers	626	.3	712		128
Cabinetmakers, Apprentice	122	.1	139		25
Carpet Cutters &/or Layers	192	.1	218		34
Carpet Cutters &/or Layers, Apprentice	13	.0	15		2
Carpenters	340	.2	387		81
Cleaners, Vehicle	916	.4	1,042		165
Delivery and Route Workers	5,069	2.2	5,769		978
Merchandise Displayers and Window Trimmers	179	.1	204		64
Electricians	33	.0	38		9
Supervisors, Nonworking	1,495	.7	1,701		322
Furnace Installers and Repairers, Hot Air	7	.0	8		1
Glaziers	119	.1	135		24
Glaziers, Apprentice	6	.0	7		1
Industrial Truck Operators	554	.2	630		106
Instrument Repairers	51	.0	58		11
Jewelers &/or Silversmiths	230	.1	262		64
Jewelers &/or Silversmiths, Apprentice	29	.0	33		8
Machinists	204	.1	232		44
Machinists, Apprentice	10	.0	11		1
Maintenance Repairers, General Utility	942	.4	1,072		196
Helpers, Trades	230	.1	262		54
Marine Service Station Attendants	11	.0	13		2
Musical Instrument Repairers	41	.0	47		10
Order Fillers	1,269	.5	1,444		247
Painters, Automotive	161	.1	183		39
Painters, Automotive, Apprentice	10	.0	11		1
Painters, Maintenance	14	.0	16		2
Plumbers &/or Pipefitters	31	.0	35		8
Production Packagers	1,162	.5	1,322		373
Sewers, Custom	43	.0	49		21

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Sewing Machine Operators, Reg. Equip. - Garment	82	.0	93		23
Sewing Machine Operators, Special &/or Automatic Equipment - Garment	23	.0	26		7
Sewing Machine Operators, Reg. Equipment - Nongarment	140	.0	159		39
Sewing Machine Operators, Special &/or Automatic Equipment - Nongarment	481	.2	547		132
Sheet Metal Workers	81	.0	92		15
Stationary Engineers	16	.0	18		2
Alteration Tailors	357	.2	406		109
Tire Fabricators &/or Repairers	258	.0	294		64
Watchmakers	65	.0	74		13
Welders & Flamecutters	94	.0	107		23
Furniture Assemblers and Installers	129	.1	147		32
Baggers	2,984	1.3	3,396		580
Fuel Pump Attendants &/or Lubricators	3,628	1.6	4,129		844
Tire Changers	880	.4	1,001		204
Opticians, Dispensing and/or Optical Mechanics	212	.1	241		66
Drapery Hangers	54	.0	61		19
Household Appliance Installers	91	.0	104		21
Stock Clerks, Sales Floor	4,446	1.9	5,060		866
Furniture Finishers	169	.1	192		28
Furniture Upholsterers	39	.0	44		9
Furniture Upholsterers, Apprentice	10	.0	11		1
Bakers	289	.1	329		90
Bakers, Apprentice	29	.0	33		8
Cake Decorators	63	.0	72		21
Doughnut Makers &/or Doughnut Machine Operators	69	.0	79		22
Wood Machinists	177	.1	201		44
Conveyor Operators or Tenders	130	.1	148		32
Ceiling Tile Installers &/or Floor Layers	147	.1	167		32
Ceiling Tile Installers &/or Floor Layers, Apprentice	4	.0	5		1
Mobile Home Repairers	219	.1	249		50
Mobile Home Set-up Operators	170	.1	193		41
Picture Framers	41	.0	47		10
All Other Skilled Craft Workers	1,141	.5	1,298		237
All Other Operatives & Semiskilled Workers	1,779	.8	2,025		438
All Other Laborers and Unskilled Workers	4,840	2.1	5,508		1,126
TOTAL CLERICAL WORKERS	41,167	17.7	47,124	17.8	14,677
Bookkeeping &/or Billing Machine Operators	350	.1	401		128
Computer Operators	232	.1	266		61
Keypunch Operators	367	.2	420		148
Peripheral EDP Equipment Operators	29	.0	33		12
All Other Office Machine Operators	78	.0	89		35
Stenographers	7	.0	8		1
Accounting Clerks	1,443	.6	1,652		537
Bookkeepers, Hand	3,092	1.3	3,539		1,150
Adjustment Clerks	328	.1	375		126
Cashiers	13,943	6.0	15,961		5,272
Collectors	145	.1	166		41
File Clerks	65	.0	74		29
General Clerks, Office	5,739	2.5	6,569		2,214
Credit Authorizers	202	.1	231		78
Order Clerks	1,291	.6	1,478		485
Payroll &/or Timekeeping Clerks	97	.0	111		34
Personnel Clerks	138	.0	158		63
Procurement Clerks	33	.0	38		9
Credit Reference Clerks	42	.0	48		17
Receptionists	294	.1	337		134
Secretaries	2,052	.9	2,349		860
Service Clerks	366	.2	419		141

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Switchboard Operators	177	.1	203		82
Switchboard Operator/Receptionists	376	.2	430		172
Typists	297	.1	340		132
Clerical Supervisors, Office or Plant	503	.2	576		135
All Other Office Clerical Workers	779	.3	892		301
Shipping Packers	957	.4	1,095		241
Shipping &/or Receiving Clerks	1,404	.6	1,607		317
Weighers, Record Keeping	94	.0	108		37
Stock Clerks, Stockroom, Warehouse, or Storage Yard	5,256	2.3	6,017		1,325
Dispatchers, Vehicle, Service or Work	98	.0	112		26
Marking Clerks	850	.4	973		328
All Other Plant Clerical Workers	43	.0	49		17
TOTAL SALES WORKERS	54,494	23.4	61,877	23.4	14,875
Sales Representatives, Technical	4,646	2.0	5,275		1,413
Sales Representatives, Nontechnical	20,309	8.7	23,061		6,184
Sales Clerks (Exclude Cashiers)	28,696	12.3	32,584		7,020
Demonstrators	33	.0	37		12
Sales Clerk Supervisors	429	.2	487		130
All Other Sales Workers	381	.2	433		116
TOTAL ALL OCCUPATIONS	232,512	100.0	264,157	100.0	66,504

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

MANAGERS & OFFICERS

All Other Managers & Officers
  Fashion Coordinators

PROFESSIONAL WORKERS

All Other Engineers
  Chemical Engineers

All Other Professional Workers
  Life Scientists
  Writers &/or Editors
  Lawyers
  Nurses, Professional

TECHNICAL WORKERS

All Other Technical Workers
  Science Technicians
  Radio Operators

SERVICE WORKERS

All Other Food Service Workers
  Cooks, Institution

MAINTENANCE & PRODUCTION WORKERS

All Other Mechanics & Repairers
  Camera Repairers

All Other Skilled Craft Workers
  Gunsmiths
  Locksmiths
  Millwrights
  Oil Burner Installers & Servicers
  Custom Tailors
  Stone Carvers, Hand

All Other Operatives & Semiskilled Workers
  Carpet Sewers
  Drapery & Upholstery Measurers
  Boat Patchers, Plastic
  Variety Saw Operators
  Woodworking Machine Operators

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

APACHE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	101	107	6	8	14
Managers, Merchandise	14	15	1	0	1
Managers, Store	64	68	4	8	12
Wholesalers	5	5	0	0	0
Managers, Restaurant, Coffee Shop, or Liquor Establishment	10	11	1	0	1
All Other Managers & Officers	8	8	0	0	0
TOTAL PROFESSIONAL WORKERS	16	18	2	3	5
Buyers	3	3	0	0	0
All Other Professional Workers	13	15	2	3	5
TOTAL SERVICE WORKERS	203	222	19	38	57
Janitors, Porters, & Cleaners	13	14	1	2	3
Bartenders	8	9	1	0	1
Butchers &/or Meat Cutters	13	14	1	0	1
Kitchen Helpers	16	18	2	4	6
Waiters or Waitresses	68	74	6	16	22
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	9	10	1	4	5
Cooks, Short Order &/or Specialty Fast Foods	25	27	2	4	6
Cooks, Restaurant	13	14	1	4	5
Food Preparation & Service Workers, Fast Food Restaurant	22	24	2	4	6
All Other Food Service Workers	8	9	1	0	1
All Other Service Workers	8	9	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	169	186	17	8	25
Mechanics, Automotive	19	21	2	0	2
All Other Mechanics And Repairers	7	8	1	0	1
Truck Drivers	8	9	1	0	1
Fuel Pump Attendants &/or Lubricators	54	59	5	4	9
Stock Clerks, Floor Sales	38	42	4	4	8
All Other Skilled Craft Workers	18	20	2	0	2
All Other Operatives & Semiskilled Workers	15	16	1	0	1
All Other Laborers & Unskilled Workers	10	11	1	0	1
TOTAL CLERICAL WORKERS	204	225	21	40	61
Bookkeepers	18	20	2	4	6
Cashiers	161	178	17	36	53
General Clerks, Office	6	6	0	0	0
All Other Office Clerical Workers	7	8	1	0	1
Stock Clerks, Stockroom, Warehouse or Storage Yard	7	8	1	0	1
All Other Plant Clerical Workers	5	5	0	0	0
TOTAL SALES WORKERS	321	352	31	36	67
Sales Clerks (Exclude Cashiers)	267	293	26	28	54
Sales Representatives, Nontechnical	51	56	5	8	13
All Other Sales Workers	3	3	0	0	0
TOTAL ALL OCCUPATIONS	1,014	1,110	96	133	229

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

APACHE COUNTY

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

MANAGERS & OFFICERS

- All Other Managers & Officers
  - Directors, Food & Beverage &/or Mgrs., Catering
  - Managers, Automotive Service Department
  - Managers, Automotive Parts Department

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Accountants & Auditors
  - Pharmacists
  - Designers

SERVICE WORKERS

- All Other Food Service Workers
  - Bakers
  - Dining Room Attendants, Bartender Helpers, or Cafeteria Attendants

- All Other Service Workers
  - Store Detectives

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Body Repairers, Automotive

- All Other Skilled Craft Workers
  - Cabinetmakers
  - Carpenters
  - Jewelers &/or Silversmiths

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

- All Other Operatives & Semiskilled Workers
  - Delivery & Route Workers
  - Order Fillers
  - Tire Changers

- All Other Laborers & Unskilled Workers
  - Cleaners, Vehicle
  - Order Fillers
  - Baggers

CLERICAL WORKERS

- All Other Office Clerical Workers
  - Bookkeeping &/or Billing Machine Operators
  - Accounting Clerks
  - Payroll &/or Timekeeping Clerks
  - Secretaries
  - Clerical Supervisors

- All Other Plant Clerical Workers
  - Shipping &/or Receiving Clerks
  - Marking Clerks

SALES WORKERS

- All Other Sales Workers
  - Sales Clerk Supervisors

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

COCHISE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	416	440	24	44	68
Managers, Merchandise	29	31	2	4	6
Managers, Store	214	226	12	24	36
Managers, Auto Service Department	13	14	1	0	1
Managers, Auto Parts Department	11	12	1	0	1
Wholesalers	15	16	1	0	1
Managers, Restaurant, Coffee Shop, or Liquor Establishment	61	65	4	8	12
All Other Managers & Officers	73	77	4	8	12
TOTAL PROFESSIONAL WORKERS	79	84	5	8	13
Buyers	29	31	2	4	6
Accountants & Auditors	13	14	1	0	1
Pharmacists	18	19	1	4	5
Designers	11	12	1	0	1
All Other Professional Workers	8	9	1	0	1
TOTAL TECHNICAL WORKERS	4	4	0	0	0
TOTAL SERVICE WORKERS	1,189	1,273	84	227	311
Janitors, Porters, & Cleaners	71	76	5	12	17
Bartenders	64	69	5	8	13
Dining Room Attendants, Bartender Helpers, &/or Cafeteria Attendants	31	33	2	0	2
Butchers &/or Meat Cutters	43	46	3	4	7
Butchers &/or Meat Cutters, Apprentice	7	7	0	0	0
Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop	4	4	0	0	0
Kitchen Helpers	89	95	6	17	23
Waiters or Waitresses	353	378	25	86	111
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	53	57	4	12	16
Cooks, Short Order &/or Specialty Fast Foods	116	124	8	20	28
Cooks, Restaurant	77	82	5	12	17
Food Preparation & Service Workers, Fast Food Restaurant	264	282	18	52	70
All Other Food Service Workers	17	18	1	4	5
TOTAL MAINTENANCE & PRODUCTION WORKERS	840	902	62	56	118
Mechanics, Automotive	98	105	7	4	11
Body Repairers, Automotive	21	23	2	0	2
Television Servicers & Repairers, Radio &/or Tape Recorder Repairers	3	3	0	0	0
Gas & Electric Appliance Repairers	13	14	1	0	1
All Other Mechanics & Repairers	55	59	4	4	8
Truck Drivers	44	47	3	4	7
Cleaners, Vehicle	17	18	1	0	1
Delivery & Route Workers	64	69	5	4	9
Supervisors, Nonworking	16	17	1	0	1
Order Fillers	9	10	1	0	1
Painters, Automotive	4	4	0	0	0
Production Packagers	12	13	1	4	5
Baggers	43	46	3	4	7
Fuel Pump Attendants &/or Lubricators	140	150	10	12	22
Tire Changers	11	12	1	0	1
Stock Clerks, Sales Floor	149	160	11	8	19
All Other Skilled Craft Workers	80	86	6	4	10
All Other Operatives & Semiskilled Workers	23	25	2	4	6
All Other Laborers & Unskilled Workers	38	41	3	4	7

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

COCHISE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL CLERICAL WORKERS	674	728	54	140	194
Bookkeeping &/or Billing Machine Operators	11	12	1	4	5
All Other Office Machine Operators	3	3	0	0	0
Accounting Clerks	34	37	3	8	11
Bookkeepers, Hand	80	86	6	17	23
Cashiers	292	315	23	66	89
General Clerks, Office	70	76	6	16	22
Order Clerks	13	14	1	4	5
Receptionists	3	3	0	0	0
Secretaries	14	15	1	4	5
Typists	8	9	1	4	5
Clerical Supervisors	13	14	1	0	1
All Other Office Clerical Workers	58	63	5	12	17
Shipping &/or Receiving Clerks	8	9	1	0	1
Stock Clerks, Stockroom, Warehouse, or Storage Yard	57	62	5	5	10
Marking Clerks	4	4	0	0	0
All Other Plant Clerical Workers	6	6	0	0	0
TOTAL SALES WORKERS	894	957	63	110	173
Sales Representatives, Technical	21	22	1	4	5
Sales Representatives, Nontechnical	232	248	16	38	54
Sales Clerks (Exclude Cashiers)	610	653	43	64	107
All Other Sales Workers	31	33	2	4	6
TOTAL ALL OCCUPATIONS	4,096	4,388	292	585	877

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Mechanical Engineers
  - Personnel & Labor Relations Specialists

TECHNICAL WORKERS

- Electrical & Electronic Technicians

SERVICE WORKERS

- All Other Service Workers
  - Guards & Doorkeepers
  - Bakers, Bread &/or Pastry
  - Cosmetologists &/or Women's Hairstylists

CLERICAL WORKERS

- All Other Office Clerical Workers
  - Adjustment Clerks
  - Credit Authorizers
  - Payroll &/or Timekeeping Clerks
  - Personnel Clerks
  - Service Clerks
  - Switchboard Operators
  - Switchboard Operator/Receptionists

- All Other Plant Clerical Workers
  - Shipping Packers
  - Weighers

SALES WORKERS

- All Other Sales Workers
  - Sales Clerk Supervisors

MAINTENANCE & PRODUCTION WORKERS

- All Other Mecahnics & Repairers
  - Bicycle Repairers
  - Diesel Mechanics
  - Engineering Equipment Mechanics
  - Mechanics, Maintenance
  - Office Machine Servicers
  - Motorboat Mechanics
  - Gas & Electric Repairers

- All Other Skilled Craft Workers
  - Automobile Repairers, Service Estimators
  - Cabinetmakers
  - Merchandise Displayers
  - Electricians
  - Glaziers
  - Jewelers &/or Silversmiths
  - Machinists
  - Maintenance Repairers, General Utility
  - Millwrights
  - Stationary Engineers
  - Alteration Tailors
  - Watchmakers
  - Opticians, Dispensing, &/or Optical Mechanics
  - Bakers

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

COCHISE COUNTY

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

- All Other Operatives & Semiskilled Workers
  - Carpet Cutters &/or Carpet Layers
  - Industrial Truck Operators
  - Tire Fabricators &/or Repairers
  - Mobile Home Set-up Operators

- All Other Laborers & Unskilled Workers
  - Mobile Home Repairers

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

COCONINO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	590	638	48	73	121
Directors, Food & Beverage &/or Managers, Catering	9	10	1	0	1
Managers, Merchandise	31	34	3	4	7
Managers, Store	313	338	25	37	62
Managers, Automobile Service Department	22	24	2	4	6
Managers, Automobile Parts Department	12	13	1	0	1
Wholesalers	38	41	3	4	7
Managers, Restaurant, Coffee Shop, or Liquor Establishment	124	134	10	20	30
All Other Managers & Officers	41	44	3	4	7
TOTAL PROFESSIONAL WORKERS	92	101	9	8	17
Buyers	34	37	3	4	7
Accountants & Auditors	10	11	1	0	1
Pharmacists	17	19	2	4	6
Designers	19	21	2	0	2
All Other Professional Workers	12	13	1	0	1
TOTAL TECHNICAL WORKERS	10	11	1	0	1
TOTAL SERVICE WORKERS	2,296	2,510	214	449	663
Janitors, Porters, & Cleaners	63	69	6	9	15
Bakers	9	10	1	0	1
Bartenders	100	109	9	13	22
Dining Room Attendants, Bartender Helpers, &/or Cafeteria Attendants	126	138	12	10	22
Butchers &/or Meat Cutters	47	51	4	4	8
Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop	61	67	6	16	22
Kitchen Helpers	272	297	25	54	79
Waiters or Waitresses	567	620	53	139	192
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	195	213	18	46	64
Cooks, Short Order &/or Specialty Fast Foods	195	213	18	32	50
Cooks, Restaurant	168	184	16	28	44
Food Preparation & Service Workers, Fast Food Restaurant	456	499	43	90	133
All Other Service Workers	37	40	3	8	11
TOTAL MAINTENANCE & PRODUCTION WORKERS	1,187	1,302	115	73	188
Mechanics, Automotive	155	170	15	8	23
Body Repairers, Automotive	27	30	3	0	3
Bicycle Repairers	8	9	1	0	1
Office Machine &/or Cash Register Servicers	11	12	1	0	1
Gas & Electric Appliance Repairers	23	25	2	0	2
All Other Mechanics & Repairers	20	22	2	0	2
Truck Drivers	58	64	6	4	10
Cleaners, Vehicle	31	34	3	0	3
Delivery & Route Workers	162	178	16	8	24
Supervisors, Nonworking	8	9	1	0	1
Jewelers &/or Silversmiths	15	16	1	0	1
Maintenance Repairers, General Utility	8	9	1	0	1
Baggers	44	48	4	4	8
Fuel Pump Attendants &/or Lubricators	262	287	25	24	49
Tire Changers	23	25	2	4	6
Stock Clerks, Sales Floor	137	150	13	8	21
Bakers	4	4	0	0	0
All Other Skilled Craft Workers	87	95	8	5	13
All Other Operatives & Semiskilled Workers	45	49	4	4	8

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

COCONINO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
All Other Laborers and Unskilled Workers	59	65	6	4	10
TOTAL CLERICAL WORKERS	959	1,057	98	203	301
Accounting Clerks	27	30	3	7	10
Bookkeepers, Hand	101	111	10	23	33
Cashiers	435	479	44	99	143
General Clerks, Office	98	108	10	24	34
Order Clerks	18	20	2	4	6
Secretaries	28	31	3	8	11
Clerical Supervisors, Office or Plant	14	15	1	0	1
All Other Office Clerical Workers	76	84	8	18	26
Shipping &/or Receiving Clerks	20	22	2	0	2
Stock Clerks, Stockroom, Warehouse, or Storage Yard	112	123	11	12	23
All Other Plant Clerical Workers	30	33	3	8	11
TOTAL SALES WORKERS	1,051	1,150	99	130	229
Sales Representatives, Technical	23	25	2	4	6
Sales Representatives, Nontechnical	298	326	28	49	77
Sales Clerks (Exclude Cashiers)	723	791	68	77	145
All Other Sales Workers	7	8	1	0	1
TOTAL ALL OCCUPATIONS	6,185	6,769	584	936	1,520

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Musicians, Instrumental
  - Personnel and Labor Relations Specialists

TECHNICAL WORKERS

- Computer Programmers
- Electrical & Electronic Technicians

SERVICE WORKERS

- All Other Service Workers
  - Pantry, Sandwich &/or Coffee Makers
  - Supervisors, Nonworking

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Camera Repairers
  - Engineering Equipment Mechanics
  - Marine Mechanics &/or Repairers
  - Television Servicers & Repairers, Radio &/or Tape Recorder Repairers

- All Other Skilled Craft Workers
  - Automobile Repair Service Estimators
  - Cabinetmakers
  - Carpenters
  - Merchandise Displayers & Window Trimmers
  - Glaziers

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

  - Machinists
  - Painters, Automotive
  - Alteration Tailors
  - Watchmakers
  - Furniture Finishers
  - Furniture Upholsterers
  - Ceiling Tile Installers &/or Floor Layers

- All Other Operatives & Semiskilled Workers
  - Coin Machine Servicers &/or Vending Machine Repairers
  - Carpet Cutters &/or Layers
  - Industrial Truck Operators
  - Sewing Machine Operators, Regular Equip. - Nongrament
  - Tire Fabricators &/or Repairers
  - Welders & Flamecutters
  - Furniture Assemblers & Installers
  - Mobile Home Set-up Operators
  - Picture Framers

- All Other Laborers & Unskilled Workers
  - Helpers, Trades
  - Order Fillers
  - Production Packagers
  - Mobile Home Repairers

CLERICAL WORKERS

- All Other Office Clerical Workers
  - Bookkeeping &/or Billing Machine Operators
  - Computer Operators
  - Keypunch Operators

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

COCONINO COUNTY

CLERICAL WORKERS (cont'd.)

- All Other Office Machine Operators
- Adjustment Clerks
- Collectors
- File Clerks
- Credit Authorizers
- Payroll &/or Timekeeping Clerks
- Personnel Clerks
- Receptionists
- Service Clerks
- Switchboard Operators
- Typists

All Other Plant Clerical Workers
- Shipping Packers
- Dispatchers, Vehicle, Service or Work
- Marking Clerks

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

GILA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	161	173	12	20	32
Managers, Merchandise	3	3	0	0	0
Managers, Store	90	97	7	12	19
Managers, Automobile Service Department	4	4	0	0	0
Managers, Automobile Parts Department	7	8	1	0	1
Wholesalers	9	10	1	0	1
Managers, Restaurant, Coffee Shop, or Liquor Establishment	17	18	1	4	5
All Other Managers & Officers	31	33	2	4	6
TOTAL PROFESSIONAL WORKERS	23	25	2	0	2
Buyers	7	8	1	0	1
Accountants & Auditors	5	5	0	0	0
Pharmacists	5	5	0	0	0
All Other Professional Workers	6	7	1	0	1
TOTAL SERVICE WORKERS	554	605	51	112	163
Janitors, Porters, & Cleaners	18	20	2	4	6
Bartenders	26	28	2	4	6
Butchers &/or Meat Cutters	19	21	2	0	2
Kitchen Helpers	48	52	4	8	12
Waiters or Waitresses	191	209	18	47	65
Cooks, Short Order &/or Specialty Fast Foods	38	41	3	8	11
Cooks, Restaurant	44	48	4	8	12
Food Preparation & Service Workers, Fast Food Restaurant	148	162	14	29	43
All Other Food Service Workers	22	24	2	4	6
TOTAL MAINTENANCE & PRODUCTION WORKERS	323	354	31	20	51
Mechanics, Automotive	52	57	5	4	9
All Other Mechanics & Repairers	21	23	2	0	2
Truck Drivers	15	16	1	0	1
Cleaners, Vehicle	14	15	1	0	1
Delivery & Route Workers	40	44	4	4	8
Production Packagers	7	8	1	0	1
Baggers	33	36	3	0	3
Fuel Pump Attendants &/or Lubricators	40	44	4	4	8
Stock Clerks, Sales Floor	45	49	4	4	8
All Other Skilled Craft Workers	16	18	2	0	2
All Other Operatives & Semiskilled Workers	31	34	3	4	7
All Other Laborers & Unskilled Workers	9	10	1	0	1
TOTAL CLERICAL WORKERS	318	350	32	70	102
All Office Machine Operators	1	1	0	0	0
Bookkeepers, Hand	33	36	3	8	11
Cashiers	195	215	20	44	64
General Clerks, Office	25	28	3	6	9
Order Clerks	9	10	1	0	1
Secretaries	8	9	1	4	5
All Other Office Clerical Workers	33	36	3	8	11
Stock Clerks, Stockroom, Warehouse, or Storage Yard	12	13	1	0	1
All Other Plant Clerical Workers	2	2	0	0	0
TOTAL SALES WORKERS	373	408	35	47	82
Sales Representatives, Nontechnical	112	123	11	19	30
Sales Clerks (Exclude Cashiers)	260	284	24	28	52
All Other Sales Workers	1	1	0	0	0
TOTAL ALL OCCUPATIONS	1,752	1,915	163	269	432

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

GILA COUNTY

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Personnel & Labor Relations Specialists
  - Designers

SERVICE WORKERS

- All Other Food Service Workers
  - Bakers
  - Dining Room Attendents, Bartender Helpers, or Cafeteria Attendants
  - Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop
  - Counter Attdts., Lunchroom, Coffee Shop, or Cafeteria
  - Pantry, Sandwich &/or Coffee Makers

CLERICAL WORKERS

- All Other Office Clerical Workers
  - Accounting Clerks
  - Adjustment Clerks
  - Credit Authorizers
  - Payroll &/or Timekeeping Clerks
  - Personnel Clerks
  - Service Clerks
  - Clerical Supervisors, Office or Plant

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Body Repairers, Automotive
  - Mechanics, Maintenance
  - Television Servicers & Repairers, Radio &/or Tape Recorder Repairers
  - Gas & Electric Appliance Repairers

- All Other Skilled Craft Workers
  - Merchandise Displayers & Window Trimmers
  - Maintenance Repairers, General Utility
  - Painters, Automotive
  - Bakers
  - Ceiling Tile Installers &/or Floor Layers

- All Other Operatives & Semiskilled Workers
  - Carpet Cutters &/or Layers
  - Industrial Truck Operators
  - Tire Changers
  - Woodworking Machine Operators
  - Conveyor Operators or Tenders
  - Mobile Home Set-up Operators

- All Other Laborers & Unskilled Workers
  - Helpers, Trades
  - Mobile Home Repairers

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

GRAHAM & GREENLEE COUNTIES

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	150	158	8	14	22
Managers, Merchandise	14	15	1	0	1
Managers, Store	86	91	5	10	15
Managers, Automotive Service Department	5	5	0	0	0
Managers, Automotive Parts Department	3	3	0	0	0
Wholesalers	4	4	0	0	0
Managers, Restaurant, Coffee Shop, or Liquor Establishment	11	12	1	0	1
All Other Managers	27	28	1	4	5
TOTAL PROFESSIONAL WORKERS	19	21	2	0	2
Buyers	3	3	0	0	0
Pharmacists	10	11	1	0	1
All Other Professional Workers	6	7	1	0	1
TOTAL SERVICE WORKERS	238	255	17	41	58
Janitors, Porters, & Cleaners	10	11	1	0	1
Bartenders	14	15	1	0	1
Butchers &/or Meat Cutters	16	17	1	0	1
Kitchen Helpers	23	25	2	4	6
Waiters or Waitresses	51	55	4	12	16
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	35	37	2	8	10
Cooks, Short Order &/or Specialty Fast Foods	20	21	1	4	5
Cooks, Restaurant	28	30	2	4	6
Food Preparation & Service Workers, Fast Food Restaurant	23	25	2	4	6
All Other Food Service Workers	7	7	0	1	1
All Other Service Workers	11	12	1	4	5
TOTAL MAINTENANCE & PRODUCTION WORKERS	450	483	33	28	61
Mechanics, Automotive	57	61	4	4	8
Engineering Equipment Mechanics	18	19	1	0	1
Gas & Electric Appliance Repairers	7	7	0	0	0
All Other Mechanics & Repairers	19	20	1	0	1
Truck Drivers	6	6	0	0	0
Cleaners, Vehicle	12	13	1	0	1
Delivery & Route Workers	62	66	4	4	8
Supervisors, Nonworking	5	5	0	0	0
Machinists	4	4	0	0	0
Production Packagers	16	17	1	0	1
Baggers	44	47	3	4	7
Fuel Pump Attendants &/or Lubricators	31	33	2	4	6
Tire Changers	7	7	0	0	0
Stock Clerks, Sales Floor	79	85	6	4	10
All Other Skilled Craft Workers	26	28	2	0	2
All Other Operatives & Semiskilled Workers	35	37	2	4	6
All Other Laborers & Unskilled Workers	22	24	2	4	6
TOTAL CLERICAL WORKERS	289	311	22	62	84
Accounting Clerks	6	6	0	0	0
Bookkeepers, Hand	32	34	2	8	10
Cashiers	150	161	11	34	45
General Clerks, Office	38	41	3	8	11
Order Clerks	5	5	0	0	0
Secretaries	11	12	1	4	5
Clerical Supervisors	4	4	0	0	0
All Other Office Clerical Workers	13	14	1	4	5
Stock Clerks, Stockroom, Warehouse, or Storage Yard	28	30	2	4	6
All Other Plant Clerical Workers	2	2	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

GRAHAM & GREENLEE COUNTIES

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL SALES WORKERS	376	403	27	41	68
Sales Representatives, Technical	14	15	1	0	1
Sales Representatives, Nontechnical	65	70	5	9	14
Sales Clerks (Exclude Cashiers)	297	318	21	32	53
TOTAL ALL OCCUPATIONS	1,522	1,631	109	186	295

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

All Other Professional Workers
- Accountants & Auditors
- Designers

SERVICE WORKERS

All Other Food Service Workers
- Dining Room Attendants, Bartender Helpers, or Cafeteria Attendants
- Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop

All Other Service Workers
- Cosmetologists &/or Hairstylists
- Supervisors, Nonworking Service

MAINTENANCE & PRODUCTION WORKERS

All Other Mechanics and Repairers
- Body Repairers, Automotive
- Farm Equipment Mechanics
- Office Machine &/or Cash Register Servicers
- Television Servicers & Repairers, Radio &/or Tape Recorder Repairers

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

All Other Skilled Craft Workers
- Cabinetmakers
- Merchandise Displayers & Window Trimmers
- Glaziers
- Maintenance Repairers, General Utility
- Bakers
- Carpenters

All Other Operatives & Semiskilled Workers
- Furniture Assemblers & Installers
- Industrial Truck Operators
- Sewing Machine Operators, Special &/or Automatic Equipment - Nongarment
- Tire Fabricators &/or Repairers
- Furniture Assemblers & Installers
- Doughnut Makers &/or Doughnut Machine Operators
- Mobile Home Set-up Operators
- Picture Framers

CLERICAL WORKERS

All Other Office Clerical Workers
- Bookkeeping &/or Billing Operators
- Adjustment Clerks
- Personnel Clerks

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	14,636	16,455	1,819	1,834	3,653
Directors, Food & Beverage &/or Managers, Catering	110	124	14	16	30
Managers, Merchandise	1,160	1,304	144	110	254
Managers, Store	6,222	6,995	773	760	1,533
Managers, Automotive Service Department	312	351	39	38	77
Managers, Automotive Parts Department	216	243	27	27	54
Wholesalers	1,880	2,114	234	230	464
Managers, Restaurant, Coffee Shop, or Liquor Establishment	2,421	2,721	300	369	669
All Other Managers & Officers	2,315	2,602	287	284	571
TOTAL PROFESSIONAL WORKERS	3,454	3,941	487	433	920
Electrical & Electronic Engineers	170	194	24	8	32
Mechanical Engineers	133	152	19	5	24
All Other Engineers	4	5	1	0	1
Chemists	12	14	2	0	2
Systems Analysts, Electronic Data Processing	133	152	19	4	23
Purchasing Agents &/or Buyers	8	9	1	0	1
Buyers	916	1,045	129	131	260
Accountants & Auditors	486	554	68	70	138
Commercial Artists	52	59	7	8	15
Writers &/or Editors	18	21	3	4	7
Musicians, Instrumental	64	73	9	8	17
Personnel & Labor Relations Specialists	94	107	13	12	25
Pharmacists	428	488	60	79	139
Designers	564	644	80	48	128
All Other Professional Workers	372	424	52	56	108
TOTAL TECHNICAL WORKERS	1,203	1,372	169	61	230
Computer Programmers	95	108	13	4	17
Drafters	27	31	4	0	4
Electrical & Electronic Technicians	922	1,051	129	42	171
All Other Engineering Technicians	24	27	3	3	6
All Other Technical Workers	135	154	19	12	31
TOTAL SERVICE WORKERS	35,765	40,688	4,923	6,892	11,815
Janitors, Porters, & Cleaners	1,721	1,958	237	268	505
Guards & Doorkeepers	267	304	37	12	49
Bakers	286	325	39	50	89
Bartenders	1,552	1,766	214	219	433
Dining Room Attendants, Bartender Helpers, or Cafeteria Attendants	2,227	2,534	307	108	415
Butchers &/or Meat Cutters	735	836	101	60	161
Butchers &/or Meat Cutters, Apprentice	65	73	8	4	12
Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop	930	1,058	128	235	363
Kitchen Helpers	3,442	3,916	474	698	1,172
Waiters or Waitresses	8,769	9,976	1,207	2,214	3,421
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	1,340	1,524	184	326	510
Cooks, Short Order &/or Specialty Fast Foods	2,294	2,610	316	382	698
Cooks, Restaurant	2,563	2,916	353	428	781
Food Preparation & Service Workers, Fast Food Restaurant	8,566	9,745	1,179	1,736	2,915
Pantry, Sandwich, &/or Coffee Makers	318	362	44	64	108
All Other Food Service Workers	5	6	1	0	1
Cosmetologists &/or Hairstylists	133	151	18	42	60
Supervisors, Nonworking Service	165	188	23	12	35
Checkers, Fitting Room	83	94	11	8	19
Store Detectives	237	270	33	10	43
All Other Service Workers	67	76	9	16	25

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MAINTENANCE & PRODUCTION WORKERS	34,315	39,161	4,846	2,672	7,518
Mechanics, Aircraft	63	72	9	4	13
Mechanics, Automotive	3,109	3,548	439	192	631
Mechanics, Automotive, Apprentice	120	137	17	8	25
Body Repairers, Automotive	488	557	69	28	97
Bicycle Repairers	44	50	6	4	10
Diesel Mechanics	474	541	67	31	98
Diesel Mechanics, Apprentice	82	94	12	4	16
Farm Equipment Mechanics	25	29	4	0	4
Engineering Equipment Mechanics	650	742	92	40	132
Engineering Equipment Mechanics, Apprentice	60	68	8	4	12
Marine Mechanics &/or Repairers	28	32	4	2	6
Mechanics, Maintenance	89	102	13	7	20
Office Machine &/or Cash Register Servicers	330	377	47	21	68
Refrigeration & Air Conditioning Mechanics	85	97	12	6	18
Television Servicers & Repairers, Radio &/or Tape Recorder Repairers	194	221	27	9	36
Television Servicers & Repairers, Radio &/or Tape Recorder Repairers, Apprentice	10	11	1	0	1
Coin Machine Servicers &/or Vending Machine Repairers	184	210	26	12	38
Motorboat Mechanics	15	17	2	0	2
Gas & Electric Appliance Repairers	371	423	52	26	78
All Other Mechanics & Repairers	358	408	50	25	75
Truck Drivers	1,829	2,087	258	100	358
Automobile Repair Service Estimators	100	114	14	7	21
Cabinetmakers	556	634	78	37	115
Carpet Cutters &/or Layers	153	175	22	4	26
Carpenters	249	284	35	24	59
Cleaners, Vehicle	625	713	88	27	115
Delivery & Route Workers	3,531	4,029	498	194	692
Merchandise Displayers & Window Trimmers	127	145	18	28	46
Electricians	30	34	4	4	8
Supervisors, Nonworking	1,148	1,310	162	89	251
Glaziers	85	97	12	7	19
Industrial Truck Operators	397	453	56	21	77
Instrument Repairers	50	57	7	4	11
Jewelers &/or Silversmiths	186	212	26	26	52
Jewelers &/or Silversmiths, Apprentice	28	32	4	4	8
Machinists	143	163	20	12	32
Maintenance Repairers, General Utility	689	786	97	49	146
Helpers, Trades	143	163	20	13	33
Musical Instrument Repairers	28	32	4	2	6
Order Fillers	1,064	1,214	150	60	210
Painters, Automotive	112	128	16	12	28
Painters, Automotive, Apprentice	9	10	1	0	1
Painters, Maintenance	14	16	2	0	2
Plumbers &/or Pipefitters	31	35	4	4	8
Production Packagers	830	947	117	152	269
Sewers, Custom	25	29	4	8	12
Sewing Machine Operators, Regular Equipment - Garment	69	79	10	9	19
Sewing Machine Operators, Special &/or Automatic Equipment - Garment	23	26	3	4	7
Sewing Machine Operators Regular Equipment - Nongarment	111	127	16	16	32
Sewing Machine Operators Special, &/or Automatic Equipment - Nongarment	419	478	59	58	117

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
Alteration Tailors	252	288	36	42	78
Tire Fabricators &/or Repairers	160	183	23	17	40
Watchmakers	55	63	8	4	12
Welders & Flamecutters	83	95	12	8	20
Furniture Assemblers & Installers	112	128	16	12	28
Baggers	2,100	2,396	296	118	414
Fuel Pump Attendants &/or Lubricators	1,708	1,949	241	161	402
Tire Changers	517	590	73	49	122
Opticians, Dispensing &/or Optical Mechanics	195	223	28	34	62
Drapery Hangers	44	50	6	10	16
Household Appliance Installers	40	46	6	4	10
Stock Clerks, Sales Floor	2,447	2,793	346	138	484
Furniture Finishers	131	149	18	4	22
Furniture Upholsterers	31	35	4	4	8
Bakers	224	256	32	39	71
Doughnut Makers &/or Doughnut Machine Operators	24	27	3	4	7
Wood Machinists	103	118	15	12	27
Conveyor Operators or Tenders	105	120	15	12	27
Ceiling Tile Installers &/or Floor Layers	28	32	4	4	8
Mobile Home Repairers	134	153	19	12	31
Mobile Home Set-up Operators	96	110	14	11	25
Picture Framers	28	32	4	4	8
All Other Skilled Craft Workers	1,085	1,238	153	76	229
All Other Operatives & Semiskilled Workers	1,391	1,587	196	150	346
All Other Laborers & Unskilled Workers	3,639	4,153	514	345	859
TOTAL CLERICAL WORKERS	27,067	31,069	4,002	5,715	9,717
Bookkeeping &/or Billing Machine Operators	202	232	30	45	75
Computer Operators	203	233	30	24	54
Keypunch Operators	319	366	47	83	130
All Other Office Machine Operators	77	88	11	23	34
Accounting Clerks	1,066	1,224	158	244	402
Bookkeepers, Hand	1,804	2,071	267	411	678
Adjustment Clerks	145	166	21	35	56
Cashiers	7,621	8,748	1,127	1,782	2,909
Collectors	111	127	16	16	32
File Clerks	47	54	7	15	22
General Clerks, Office	4,180	4,798	618	1,010	1,628
Credit Authorizers	141	162	21	34	55
Order Clerks	997	1,144	147	229	376
Payroll &/or Timekeeping Clerks	64	73	9	12	21
Personnel Clerks	89	102	13	28	41
Procurement Clerks	31	35	4	4	8
Credit Reference Clerks	36	41	5	8	13
Receptionists	218	250	32	68	100
Secretaries	1,584	1,818	234	435	669
Service Clerks	255	293	38	62	100
Switchboard Operators	141	162	21	44	65
Switchboard Operator/Receptionists	296	340	44	92	136
Typists	248	285	37	75	112
Clerical Supervisors, Office or Plant	291	334	43	37	80
All Other Office Clerical Workers	595	683	88	144	232
Shipping Packers	692	794	102	75	177
Shipping &/or Receiving Clerks	979	1,124	145	80	225

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
Weighers, Record Keeping	57	65	8	13	21
Stock Clerks, Stockroom, Warehouse, or Storage Yard	3,813	4,377	564	410	974
Dispatchers, Vehicle, Service or Work	71	82	11	8	19
Marking Clerks	684	785	101	165	266
All Other Plant Clerical Workers	10	11	1	4	5
TOTAL SALES WORKERS	37,994	43,262	5,268	5,315	10,583
Sales Representatives, Technical	3,770	4,293	523	638	1,161
Sales Representatives, Nontechnical	15,108	17,203	2,095	2,558	4,653
Sales Clerks (Exclude Cashiers)	18,547	21,119	2,572	2,022	4,594
Sales Clerk Supervisors	238	271	33	41	74
All Other Sales Workers	331	377	46	56	102
TOTAL ALL OCCUPATIONS	154,434	175,948	21,514	22,922	44,436

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

MANAGERS & OFFICERS

All Other Managers & Officers
  Fashion Coordinators

PROFESSIONAL WORKERS

All Other Professional Workers
  Lawyers
  Nurses, Professional
  Public Relations Practitioners

TECHNICAL WORKERS

All Other Technical Workers
  Pharmacy Helpers

SERVICE WORKERS

All Other Food Service Workers
  Cooks, Institution

MAINTENANCE & PRODUCTION WORKERS

All Other Mechanics & Repairers
  Electric Tool Repairers

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

All Other Skilled Craft Workers
  Gunsmiths
  Locksmiths
  Furnace Installers & Repairers, Hot Air
  Millwrights
  Oil Burner Installers & Servicers
  Sheet Metal Workers
  Stationary Engineers
  Custom Tailors
  Cake Decorators

All Other Operatives & Semiskilled Workers
  Carpet Sewers
  Marine Service Station Attendants
  Drapery & Upholstery Measurers
  Boat Patchers, Plastic
  Variety Saw Operators
  Woodworking Machine Operators

CLERICAL WORKERS

All Other Office Machine Workers
  Peripheral EDP Equipment Operators

All Other Office Clerical Workers
  Stenographers

SALES WORKERS

All Other Sales Workers
  Demonstrators

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

MOHAVE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	354	407	53	49	102
Managers, Merchandise	16	18	2	3	5
Managers, Store	173	199	26	21	47
Managers, Automotive Service Department	14	16	2	1	3
Managers, Automotive Parts Department	9	10	1	0	1
Wholesalers	18	21	3	4	7
Managers, Restaurant, Coffee Shop, or Liquor Establishment	71	82	11	12	23
All Other Managers & Officers	53	61	8	8	16
TOTAL PROFESSIONAL WORKERS	50	58	8	10	18
Buyers	19	22	3	4	7
Accountants & Auditors	8	9	1	0	1
Pharmacists	11	13	2	4	6
All Other Professional Workers	12	14	2	2	4
TOTAL SERVICE WORKERS	1,075	1,251	176	219	395
Janitors, Porters, & Cleaners	26	30	4	4	8
Bartenders	36	42	6	4	10
Dining Room Attendants, Bartender Helpers, or Cafeteria Attendants	10	12	2	0	2
Butchers &/or Meat Cutters	43	50	7	4	11
Butchers &/or Meat Cutters, Apprentice	5	6	1	0	1
Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop	11	13	2	4	6
Kitchen Helpers	99	115	16	20	36
Waiters or Waitresses	269	313	44	69	113
Cooks, Short Order &/or Specialty Fast Foods	65	76	11	12	23
Cooks, Restaurant	62	72	10	12	22
Food Preparation & Service Workers, Fast Food Restaurant	442	514	72	90	162
All Other Food Service Workers	7	8	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	702	819	117	44	161
Mechanics, Automotive	100	117	17	7	24
Marine Mechanics &/or Repairers	5	6	1	0	1
All Other Mechanics & Repairers	49	57	12	4	16
Truck Drivers	47	55	8	4	12
Cleaners, Vehicle	25	29	4	0	4
Delivery & Route Workers	62	72	10	4	14
Supervisors, Nonworking	10	12	2	0	2
Production Packagers	23	27	4	4	8
Baggers	32	37	5	0	5
Fuel Pump Attendants &/or Lubricators	164	191	27	16	43
Stock Clerks, Sales Floor	60	70	10	4	14
Ceiling Tile Installers &/or Floor Layers	7	8	1	0	1
All Other Skilled Craft Workers	44	51	7	4	11
All Other Operatives & Semiskilled Workers	35	41	6	4	10
All Other Laborers & Unskilled Workers	39	45	6	4	10
TOTAL CLERICAL WORKERS	644	756	112	150	262
All Office Machine Operators	13	15	2	4	6
Accounting Clerks	9	11	2	4	6
Bookkeepers, Hand	49	58	9	12	21
Cashiers	382	448	66	90	156
General Clerks, Office	61	72	11	16	27
Order Clerks	13	15	2	4	6
Secretaries	16	19	3	4	7
All Other Office Clerical Workers	47	55	8	12	20

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

MOHAVE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
Shipping &/or Receiving Clerks	5	6	1	0	1
Stock Clerks, Stockroom, Warehouse, or Storage Yard	48	56	8	4	12
All Other Plant Clerical Workers	1	1	0	0	0
TOTAL SALES WORKERS	508	591	83	69	152
Sales Representatives, Nontechnical	155	180	25	27	52
Sales Clerks (Exclude Cashiers)	341	397	56	38	94
All Other Sales Workers	12	14	2	4	6
TOTAL ALL OCCUPATIONS	3,333	3,882	549	541	1,090

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

MANAGERS & OFFICERS

- All Other Managers & Officers
  - Directors, Food & Beverage, &/or Mgrs., Catering

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Designers

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Body Repairers, Automotive
  - Office Machine &/or Cash Register Servicers
  - Television Servicers & Repairers, Radio &/or Tape Recorder Repairers
  - Coin Machine Service &/or Vending Machine Repairers
  - Motorboat Mechanics
  - Gas & Electric Appliance Repairers

- All Other Skilled Craft Workers
  - Cabinetmakers
  - Carpenters
  - Glaziers
  - Jewelers &/or Silversmiths
  - Machinists
  - Maintenance Repairers, General Utility
  - Painters, Automotive
  - Watchmakers
  - Bakers
  - Wood Machinists

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

- All Other Operatives & Semiskilled Workers
  - Carpet Cutters &/or Layers
  - Industrial Truck Operators
  - Sewing Machine Operators, Reg. Equip. - Nongarment
  - Tire Fabricators &/or Repairers
  - Mobile Home Set-up Operators

- All Other Laborers & Unskilled Workers
  - Helpers, Trades
  - Mobile Home Repairers

CLERICAL WORKERS

- All Other Office Clerical Workers
  - Adjustment Clerks
  - Receptionists
  - Service Clerks
  - Switchboard Operator/Receptionists
  - Typists
  - Clerical Supervisors, Office or Plant

SALES WORKERS

- All Other Sales Workers
  - Sales Representatives, Technical

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

NAVAJO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	364	390	26	43	69
Managers, Merchandise	9	10	1	0	1
Managers, Store	224	240	16	27	43
Managers, Automotive Service Department	8	8	0	0	0
Managers, Automotive Parts Department	4	4	0	0	0
Wholesalers	11	12	1	0	1
Managers, Restaurant, Coffee Shop, or Liquor Establishment	55	59	4	8	12
All Other Managers & Officers	53	57	4	8	12
TOTAL PROFESSIONAL WORKERS	40	43	3	4	7
Buyers	23	25	2	4	6
Accountants and Auditors	6	6	0	0	0
Pharmacists	9	10	1	0	1
All Other Professional Workers	2	2	0	0	0
TOTAL SERVICE WORKERS	1,054	1,142	88	202	290
Janitors, Porters, & Cleaners	29	31	2	4	6
Bartenders	43	47	4	5	9
Dining Room Attendants, Bartender Helpers, or Cafeteria Attendants	20	22	2	0	2
Butchers &/or Meat Cutters	30	32	2	4	6
Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop	8	9	1	0	1
Kitchen Helpers	138	149	11	28	39
Waiters or Waitresses	338	366	28	82	110
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	21	23	2	4	6
Cooks, Short Order &/or Specialty Fast Foods	117	127	10	20	30
Cooks, Restaurant	107	116	9	16	25
Food Preparation & Service Workers, Fast Food Restaurant	196	212	16	39	55
All Other Service Workers	7	8	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	717	779	62	56	118
Mechanics, Automotive	86	93	7	4	11
Body Repairers, Automotive	7	8	1	0	1
Gas & Electric Appliance Repairers	11	12	1	0	1
All Other Mechanics & Repairers	24	26	2	0	2
Truck Drivers	52	56	4	4	8
Cleaners, Vehicle	10	11	1	0	1
Delivery and Route Workers	47	51	4	4	8
Industrial Truck Operators	5	5	0	0	0
Machinists	4	4	0	0	0
Production Packagers	14	15	1	4	5
Baggers	46	50	4	4	8
Fuel Pump Attendants &/or Lubricators	250	272	22	24	46
Tire Changers	10	11	1	0	1
Stock Clerks, Sales Floor	114	124	10	8	18
Bakers	5	5	0	0	0
All Other Skilled Craft Workers	10	11	1	0	1
All Other Operatives & Semiskilled Workers	20	22	2	4	6
All Other Laborers & Unskilled Workers	2	2	0	0	0
TOTAL CLERICAL WORKERS	536	585	49	114	163
Accounting Clerks	5	6	1	0	1
Bookkeepers, Hand	56	61	5	12	17
Cashiers	324	354	30	74	104
General Clerks, Office	36	39	3	8	11
Order Clerks	17	19	2	4	6
Secretaries	10	11	1	4	5

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

NAVAJO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
Typists	4	4	0	0	0
All Other Office Clerical Workers	36	39	3	8	11
Shipping &/or Receiving Clerks	7	8	1	0	1
Stock Clerks, Stockroom, Warehouse, or Storage Yard	40	43	3	4	7
All Other Plant Clerical Workers	1	1	0	0	0
TOTAL SALES WORKERS	654	709	55	75	130
Sales Representatives, Nontechnical	127	138	11	20	31
Sales Clerks (Exclude Cashiers)	524	568	44	55	99
All Other Sales Workers	3	3	0	0	0
TOTAL ALL OCCUPATIONS	3,365	3,648	283	494	777

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

SERVICE WORKERS

- All Other Service Workers
  - Supervisors, Nonworking Service

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Diesel Mechanics
  - Office Machine &/or Cash Register Servicers

- All Other Skilled Craft Workers
  - Automobile Repair Service Estimators
  - Cabinetmakers
  - Maintenance Repairers, General Utility

- All Other Operatives & Semiskilled Workers
  - Carpet Cutters &/or Carpet Layers

CLERICAL WORKERS

- All Other Office Clerical Workers
  - Bookkeeping &/or Billing Machine Operators
  - Adjustment Clerks
  - Collectors
  - Service Clerks
  - Switchboard Operator/Receptionists
  - Clerical Supervisors, Office or Plant

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	3,827	4,301	474	486	960
Directors, Food & Beverage &/or Managers, Catering	68	76	8	11	19
Managers, Merchandise	232	261	29	22	51
Managers, Store	1,797	2,020	223	219	442
Managers, Automotive Service Department	87	98	11	12	23
Managers, Automotive Parts Department	73	82	9	8	17
Wholesalers	308	346	38	38	76
Managers, Restaurant, Coffee Shop, or Liquor Establishment	748	841	93	114	207
All Other Managers & Officers	514	578	64	62	126
TOTAL PROFESSIONAL WORKERS	1,019	1,162	143	137	280
Electrical & Electronic Engineers	6	7	1	0	1
Mechanical Engineers	20	23	3	0	3
All Other Engineers	12	14	2	0	2
Systems Analysts, Electronic Data Processing	23	26	3	0	3
Purchasing Agents &/or Buyers	10	11	1	0	1
Buyers	312	356	44	45	89
Accountants & Auditors	100	114	14	15	29
Commercial Artists	18	21	3	4	7
Writers &/or Editors	7	8	1	0	1
Musicians, Instrumental	63	72	9	8	17
Personnel & Labor Relations Specialists	20	23	3	4	7
Pharmacists	153	174	21	28	49
Designers	132	151	19	12	31
All Other Professional Workers	143	163	20	21	41
TOTAL TECHNICAL WORKERS	209	238	29	10	39
Computer Programmers	8	9	1	0	1
Drafters	8	9	1	0	1
Electrical & Electronic Technicians	132	150	18	6	24
All Other Engineering Technicians	3	3	0	0	0
All Other Technical Workers	58	66	8	4	12
TOTAL SERVICE WORKERS	11,009	12,518	1,509	2,123	3,632
Janitors, Porters, & Cleaners	535	608	73	83	156
Guards & Doorkeepers	62	70	8	4	12
Bakers	59	67	8	11	19
Bartenders	554	630	76	78	154
Dining Room Attendants, Bartender Helpers, or Cafeteria Attendants	616	700	84	30	114
Butchers &/or Meat Cutters	282	321	39	23	62
Butchers &/or Meat Cutters, Apprentice	15	17	2	0	2
Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop	320	364	44	81	125
Kitchen Helpers	1,007	1,145	138	205	343
Waiters or Waitresses	2,783	3,164	381	702	1,083
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	601	683	82	146	228
Cooks, Short Order &/or Specialty Fast Foods	861	979	118	144	262
Cooks, Restaurant	759	863	104	126	230
Cooks, Restaurant, Apprentice	46	52	6	8	14
Food Preparation & Service Workers, Fast Food Restaurant	2,069	2,353	284	419	703
Pantry, Sandwich &/or Coffee Makers	204	232	28	41	69
Supervisors, Nonworking Service	115	131	16	8	24
Checkers, Fitting Room	38	43	5	4	9
Store Detectives	47	53	6	2	8
All Other Service Workers	36	41	5	8	13

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MAINTENANCE & PRODUCTION WORKERS	7,458	8,507	1,049	565	1,614
Mechanics, Aircraft	40	46	6	0	6
Mechanics, Automotive	696	794	98	43	141
Mechanics, Automotive, Apprentice	70	80	10	4	14
Body Repairers, Automotive	136	155	19	8	27
Bicycle Repairers	18	21	3	0	3
Diesel Mechanics	78	89	11	4	15
Engineering Equipment Mechanics	82	94	12	4	16
Office Machine &/or Cash Register Servicers	102	116	14	8	22
Television Servicers & Repairers, Radio &/or Tape Recorder Repairers	45	51	6	4	10
Gas & Electric Appliance Repairers	76	87	11	4	15
All Other Mechanics & Repairers	83	95	12	5	17
Truck Drivers	353	403	50	20	70
Automobile Repair Service Estimators	26	30	4	0	4
Cabinetmakers	59	67	8	4	12
Cabinetmakers, Apprentice	11	13	2	0	2
Carpenters	43	49	6	4	10
Cleaners, Vehicle	113	129	16	4	20
Delivery & Route Workers	820	935	115	45	160
Merchandise Displayers & Window Trimmers	30	34	4	8	12
Supervisors, Nonworking	164	187	23	12	35
Glaziers	18	21	3	0	3
Industrial Truck Operators	61	70	9	4	13
Machinists	31	35	4	4	8
Maintenance Repairers, General Utility	136	155	19	9	28
Helpers, Trades	70	80	10	4	14
Musical Instrument Repairers	13	15	2	0	2
Order Fillers	153	175	22	15	37
Painters, Automotive	32	37	5	4	9
Production Packagers	150	171	21	28	49
Sewing Machine Operators, Regular Equipment - Nongarment	18	21	3	4	7
Sewing Machine Operators, Special &/or Automatic Equipment - Nongarment	58	66	8	8	16
Sheet Metal Workers	36	41	5	0	5
Alteration Tailors	89	102	13	16	29
Tire Fabricators &/or Repairers	59	67	8	8	16
Welders & Flamecutters	7	8	1	0	1
Baggers	449	512	63	25	88
Fuel Pump Attendants &/or Lubricators	588	671	83	56	139
Tire Changers	246	281	35	24	59
Drapery Hangers	10	11	1	4	5
Household Appliance Installers	47	54	7	4	11
Stock Clerks, Floor Sales	928	1,059	131	52	183
Furniture Finishers	31	35	4	0	4
Furniture Upholsterers	12	14	2	1	3
Bakers	51	58	7	8	15
Doughnut Makers &/or Doughnut Machine Operators	32	37	5	4	9
Wood Machinists	67	76	9	8	17
Ceiling Tile Installers &/or Floor Layers	105	120	15	8	23
Mobile Home Repairers	42	48	6	4	10
Mobile Home Set-up Operators	42	48	6	4	10
Picture Framers	6	7	1	0	1
All Other Skilled Craft Workers	107	122	15	8	23
All Other Operatives & Semiskilled Workers	230	262	32	24	56
All Other Laborers & Unskilled Workers	489	558	69	46	115

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL CLERICAL WORKERS	6,890	7,904	1,014	1,464	2,478
Bookkeeping &/or Billing Machine Operators	91	104	13	20	33
Computer Operators	25	29	4	4	8
Keypunch Operators	33	38	5	8	13
All Other Office Machine Operators	3	3	0	0	0
Accounting Clerks	178	204	26	41	67
Bookkeepers, Hand	603	692	89	138	227
Adjustment Clerks	82	94	12	20	32
Cashiers	2,874	3,297	423	671	1,094
Collectors	23	26	3	4	7
General Clerks, Office	789	905	116	190	306
Credit Authorizers	29	33	4	8	12
Order Clerks	146	167	21	33	54
Payroll &/or Timekeeping Clerks	14	16	2	4	6
Personnel Clerks	18	21	3	5	8
Credit Reference Clerks	6	7	1	0	1
Receptionists	49	56	7	16	23
Secretaries	231	265	34	64	98
Service Clerks	92	106	14	23	37
Switchboard Operators	27	31	4	4	8
Switchboard Operator/Receptionists	62	71	9	20	29
Typists	17	20	3	4	7
Clerical Supervisors, Office or Plant	101	116	15	12	27
All Other Office Clerical Workers	89	102	13	21	34
Shipping Packers	96	110	14	11	25
Shipping &/or Receiving Clerks	259	297	38	21	59
Stock Clerks, Stockroom, Warehouse, or Storage Yard	801	919	118	86	204
Dispatchers, Vehicle, Service or Work	23	26	3	4	7
Marking Clerks	79	91	12	20	32
All Other Plant Clerical Workers	50	57	7	12	19
TOTAL SALES WORKERS	8,986	10,226	1,240	1,221	2,461
Sales Representatives, Technical	710	808	98	122	220
Sales Representatives, Nontechnical	3,070	3,494	424	520	944
Sales Clerks (Exclude Cashiers)	5,009	5,700	691	546	1,237
Sales Clerk Supervisors	139	158	19	24	43
All Other Sales Workers	58	66	8	9	17
TOTAL ALL OCCUPATIONS	39,398	44,856	5,458	6,006	11,464

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Chemical Engineers
  - Chemists
  - Life Scientists
  - Laywers

TECHNICAL WORKERS

- All Other Technical Workers
  - Science Technicians
  - Radio Operators
  - Pharmacy Helpers

SERVICE WORKERS

- All Other Service Workers
  - Cooks, Institution
  - Cosmetologists &/or Women's Hairstylists

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Farm Equipment Mechanics
  - Marine Mechanics &/or Repairers
  - Mechanics, Maintenance
  - Refrigeration Mechanics
  - Motorboat Mechanics

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

PIMA COUNTY

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

- All Other Skilled Craft Workers
  - Electricians
  - Furnace Installers & Repairers, Hot Air
  - Instrument Repairers
  - Jewelers & Silversmiths
  - Sewers, Custom (Exclude Alteration Tailors)
  - Stationary Engineers
  - Watchmakers
  - Opticians, Dispensing &/or Optical Mechanics
  - Cake Decorators
  - Stone Carvers, Hand

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

- All Other Operatives & Semiskilled Workers
  - Carpet Cutters &/or Layers
  - Sewing Machine Operators, Regular Equip. - Garment
  - Furniture Assemblers & Installers
  - Drapery & Upholstery Measurers

CLERICAL WORKERS

- All Other Clerical Workers
  - Peripheral EDP Equipment Operators
  - Stenographers
  - Procurement Clerks

- All Other Plant Clerical Workers
  - Weighers, Record Keeping

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

PINAL COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	390	416	26	44	70
Managers, Merchandise	13	14	1	0	1
Managers, Store	199	212	13	24	37
Managers, Automotive Service Dept.	16	17	1	0	1
Managers, Automotive Parts Department	17	18	1	0	1
Wholesalers	27	29	2	4	6
Managers, Restaurant, Coffee Shop, or Liquor Establishment	56	60	4	8	12
All Other Managers	62	66	4	8	12
TOTAL PROFESSIONAL WORKERS	46	50	4	4	8
Buyers	6	7	1	0	1
Accountants & Auditors	9	10	1	0	1
Pharmacists	17	18	1	4	5
Designers	6	7	1	0	1
All Other Professional Workers	8	9	1	0	1
TOTAL TECHNICAL WORKERS	5	5	0	0	0
TOTAL SERVICE WORKERS	900	973	73	170	243
Janitors, Porters, & Cleaners	35	38	3	4	7
Bartenders	45	49	4	7	11
Dining Room Attendants, Bartender Helpers, or Cafeteria Attendants	21	23	2	0	2
Butchers &/or Meat Cutters	23	25	2	1	3
Kitchen Helpers	102	110	8	20	28
Waiters or Waitresses	270	292	22	66	88
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	44	48	4	12	16
Cooks, Short Order &/or Specialty Fast Foods	123	133	10	20	30
Cooks, Restaurant	77	83	6	12	18
Food Preparation & Service Workers, Fast Food Restaurant	135	146	11	27	38
Supervisors, Nonworking Service	25	27	2	1	3
TOTAL MAINTENANCE & PRODUCTION WORKERS	883	957	74	61	135
Mechanics, Automotive	100	108	8	5	13
Mechanics, Automotive, Apprentice	4	4	0	0	0
Body Repairers, Automotive	17	18	1	0	1
Diesel Mechanics	34	37	3	4	7
Farm Equipment Mechanics	24	26	2	0	2
All Other Mechanics & Repairers	43	47	4	4	8
Truck Drivers	42	46	4	4	8
Cleaners, Vehicle	14	15	1	0	1
Delivery & Route Workers	61	66	5	4	9
Supervisors, Nonworking	21	23	2	0	2
Machinists	3	3	0	0	0
Helpers, Trades	10	11	1	0	1
Production Packagers	6	6	0	0	0
Baggers	36	39	3	2	5
Fuel Pump Attendants &/or Lubricators	153	166	13	14	27
Tire Changers	11	12	1	0	1
Stock Clerks, Sales Floor	125	135	10	8	18
Mobile Home Repairers	4	4	0	0	0
All Other Skilled Craft Workers	61	66	5	4	9
All Other Operatives & Semiskilled Workers	73	79	6	8	14
All Other Laborers & Unskilled Workers	41	44	3	4	7
TOTAL CLERICAL WORKERS	603	656	53	131	184
All Office Machine Operators	6	7	1	0	1
Accounting Clerks	8	9	1	0	1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

PINAL COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
Bookkeepers, Hand	61	66	5	12	17
Cashiers	329	358	29	74	103
General Clerks, Office	74	81	7	17	24
Order Clerks	11	12	1	4	5
Secretaries	27	29	2	8	10
All Other Office Clerical Workers	32	35	3	8	11
Stock Clerks, Stockroom, Warehouse, or Storage Yard	35	38	3	4	7
All Other Plant Clerical Workers	20	21	1	4	5
TOTAL SALES WORKERS	724	783	59	88	147
Sales Representatives, Technical	28	30	2	4	6
Sales Representatives, Nontechnical	177	191	14	29	43
Sales Clerks	519	561	42	55	97
TOTAL ALL OCCUPATIONS	3,551	3,840	289	498	787

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

All Other Professional Workers
  Mechanical Engineers
  Systems Analysts, Electronic Data Processing

TECHNICAL WORKERS

All Other Technical Workers
  Electrical & Electronic Technicians
  Pharmacy Helpers

SERVICE WORKERS

All Other Service Workers
  Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop
  Pantry, Sandwich &/or Coffee Makers

MAINTENANCE & PRODUCTION WORKERS

All Other Mechanics & Repairers
  Mechanics, Aircraft
  Engineering Equipment Mechanics
  Marine Mechanics &/or Repairers
  Office Machine &/or Cash Register Servicers
  Refrigeration & Air Conditioning Mechanics
  Television Servicers & Repairers, Radio &/or Tape Recorder Repairers
  Gas & Electric Appliance Repairers

All Other Skilled Craft Workers
  Carpenters
  Glaziers
  Jewelers &/or Silversmiths
  Maintenance Repairers, General Utility
  Painters, Automotive
  Alteration Tailors
  Bakers

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

All Other Operatives & Semiskilled Workers
  Carpet Cutters &/or Layers
  Industrial Truck Operators
  Sewing Machine Operators, Regular Equip. - Nongarment
  Tire Fabricators &/or Repairers
  Welders & Flamecutters
  Furniture Assemblers & Installers
  Doughnut Makers &/or Doughnut Machine Operators
  Conveyor Operators or Tenders
  Mobile Home Set-up Operators

CLERICAL WORKERS

All Other Office Clerical Workers
  Bookkeeping &/or Billing Machine Operators
  Computer Operators
  Keypunch Operators
  Personnel Clerks
  Receptionists
  Service Clerks
  Switchboard Operator/Receptionists
  Typists
  Clerical Supervisors

All Other Plant Clerical Workers
  Shipping &/or Receiving Clerks
  Weighers, Record Keeping
  Shipping Packers

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

SANTA CRUZ COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	264	304	40	34	74
Managers, Merchandise	24	28	4	4	8
Managers, Store	138	159	21	16	37
Managers, Automotive Parts Department	4	5	1	0	1
Wholesalers	47	54	7	6	13
Managers, Restaurant, Coffee Shop, or Liquor Establishment	15	17	2	4	6
All Other Managers & Officers	36	41	5	4	9
TOTAL PROFESSIONAL WORKERS	65	76	11	8	19
Buyers	43	50	7	7	14
Accountants & Auditors	12	14	2	1	3
Pharmacists	7	8	1	0	1
All Other Professional Workers	3	4	1	0	1
TOTAL TECHNICAL WORKERS	3	3	0	0	0
TOTAL SERVICE WORKERS	448	521	73	81	154
Janitors, Porters, & Cleaners	47	55	8	8	16
Guards & Doorkeepers	15	17	2	0	2
Bartenders	19	22	3	4	7
Butchers &/or Meat Cutters	22	26	4	0	4
Butchers &/or Meat Cutters, Apprentice	5	6	1	0	1
Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop	7	8	1	0	1
Kitchen Helpers	49	57	8	10	18
Waiters or Waitresses	103	120	17	26	43
Cooks, Restaurant	51	59	8	8	16
Food Preparation & Service Workers, Fast Food Restaurant	57	66	9	12	21
All Other Food Service Workers	64	74	10	13	23
Store Detectives	9	11	2	0	2
TOTAL MAINTENANCE & PRODUCTION WORKERS	393	459	66	36	102
Mechanics, Automotive	19	22	3	0	3
Television Servicers & Repairers, Radio &/or Tape Recorder Repairers	6	7	1	0	1
All Other Mechanics & Repairers	2	2	0	0	0
Truck Drivers	13	15	2	0	2
Delivery & Route Workers	16	19	3	0	3
Merchandise Displayers & Window Trimmers	11	13	2	4	6
Supervisors, Nonworking	35	41	6	4	10
Baggers	15	18	3	0	3
Fuel Pump Attendants &/or Lubricators	24	28	4	4	8
Stock Clerks, Sales Floor	64	75	11	4	15
All Other Skilled Craft Workers	36	42	6	4	10
All Other Operatives & Semiskilled Workers	21	24	3	4	7
All Other Laborers & Unskilled Workers	131	153	22	12	34
TOTAL CLERICAL WORKERS	882	1,037	155	175	330
Bookkeeping &/or Billing Machine Operators	18	21	3	4	7
All Other Office Machine Operators	5	6	1	0	1
Accounting Clerks	18	21	3	4	7
Bookkeepers, Hand	72	85	13	16	29
Cashiers	257	302	45	61	106
General Clerks, Office	102	120	18	25	43
Credit Authorizers	19	22	3	4	7
Receptionists	4	5	1	0	1
Secretaries	57	67	10	16	26
Typists	5	6	1	0	1
All Other Office Clerical Workers	39	46	7	9	16

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

SANTA CRUZ COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
Shipping Packers	38	45	7	4	11
Shipping &/or Receiving Clerks	72	85	13	6	19
Stock Clerks, Stockroom, Warehouse, or Storage Yard	128	150	22	14	36
All Other Plant Clerical Workers	48	56	8	12	20
TOTAL SALES WORKERS	733	855	122	96	218
Sales Representatives, Technical	11	13	2	3	5
Sales Representatives, Nontechnical	228	266	38	39	77
Sales Clerks (Exclude Cashiers)	487	568	81	54	135
All Other Sales Workers	7	8	1	0	1
TOTAL ALL OCCUPATIONS	2,788	3,255	467	430	897

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

MANAGERS & OFFICERS

All Other Managers & Officers
- Directors, Food & Beverage &/or Mgrs., Catering
- Managers, Automobile Service Department

PROFESSIONAL WORKERS

All Other Professional Workers
- Commercial Artists

SERVICE WORKERS

All Other Food Service Workers
- Bakers
- Dining Room Attendants, Bartender Helpers, or Cafeteria Attendants
- Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria
- Cooks, Short Order &/or Specialty Fast Foods

MAINTENANCE & PRODUCTION WORKERS

All Other Skilled Craft Workers
- Cabinetmakers
- Maintenance Repairers, General Utility
- Sewers, Custom
- Alteration Tailors
- Opticians, Dispensing &/or Optical Mechanics
- Household Appliance Installers
- Bakers

All Other Operatives & Semiskilled Workers
- Industrial Truck Operators
- Sewing Machine Operators, Regular Equip. - Nongarment
- Sewing Machine Operators, Special &/or Automatic Equipment - Nongarment
- Tire Changers
- Doughnut Makers &/or Doughnut Machine Operators

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

All Other Laborers & Unskilled Workers
- Cleaners, Vehicle
- Order Fillers
- Production Packagers

CLERICAL WORKERS

All Other Office Clerical Workers
- Adjustment Clerks
- Order Clerks
- Payroll &/or Timekeeping Clerks
- Personnel Clerks
- Switchboard Operators
- Switchboard Operator/Receptionists
- Clerical Supervisors, Office or Plant

All Other Plant Clerical Workers
- Weighers, Record Keeping
- Marking Clerks

SALES WORKERS

All Other Sales Workers
- Sales Clerk Supervisors

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

YAVAPAI COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	329	367	38	39	77
Managers, Merchandise	30	33	3	4	7
Managers, Store	178	199	21	21	42
Managers, Automobile Service Department	15	17	2	2	4
Managers, Automobile Parts Department	10	11	1	0	1
Wholesalers	11	12	1	0	1
Managers, Restaurant, Coffee Shop, or Liquor Establishment	44	49	5	8	13
All Other Managers & Officers	41	46	5	4	9
TOTAL PROFESSIONAL WORKERS	98	111	13	12	25
Buyers	32	36	4	4	8
Accountants & Auditors	9	10	1	0	1
Pharmacists	29	33	4	4	8
Designers	13	15	2	0	2
All Other Professional Workers	15	17	2	4	6
TOTAL TECHNICAL WORKERS	14	16	2	0	2
Electrical & Electronic Technicians	14	16	2	0	2
TOTAL SERVICE WORKERS	1,377	1,556	179	262	441
Janitors, Porters, & Cleaners	38	43	5	5	10
Bakers	9	10	1	0	1
Bartenders	69	78	9	8	17
Dining Room Attendants, Bartender Helpers, or Cafeteria Attendants	114	129	15	4	19
Butchers &/or Meat Cutters	28	31	3	4	7
Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop	22	25	3	5	8
Kitchen Helpers	219	247	28	45	73
Waiters or Waitresses	437	493	56	110	166
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	35	40	5	8	13
Cooks, Short Order &/or Specialty Fast Foods	37	42	5	7	12
Cooks, Restaurant	175	198	23	29	52
Food Preparation & Service Workers, Fast Food Restaurant	183	207	24	37	61
All Other Food Service Workers	5	6	1	0	1
All Other Service Workers	6	7	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	722	818	96	48	144
Mechanics, Automotive	86	97	11	4	15
Mechanics, Automotive, Apprentice	3	3	0	0	0
Body Repairers, Automotive	8	9	1	0	1
All Other Mechanics & Repairers	20	23	3	0	3
Truck Drivers	17	19	2	0	2
Cabinetmakers	32	36	4	4	8
Carpet Cutters &/or Layers	6	7	1	0	1
Carpenters	12	14	2	0	2
Cleaners, Vehicle	18	20	2	0	2
Delivery & Route Workers	83	94	11	4	15
Supervisors, Nonworking	14	16	2	0	2
Industrial Truck Operators	4	5	1	0	1
Jewelers &/or Silversmiths	4	5	1	0	1
Maintenance Repairers, General Utility	7	8	1	0	1
Order Fillers	5	6	1	0	1
Production Packagers	16	18	2	4	6
Tire Fabricators &/or Repairers	7	8	1	0	1
Baggers	56	63	7	4	11
Fuel Pump Attendants &/or Lubricators	73	83	10	8	18
Tire Changers	14	16	2	0	2
Stock Clerks, Sales Floor	131	148	17	8	25
All Other Skilled Craft Workers	32	36	4	4	8

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

YAVAPAI COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
All Other Operatives & Semiskilled Workers	32	36	4	4	8
All Other Laborers & Unskilled Workers	42	48	6	4	10
TOTAL CLERICAL WORKERS	648	737	89	139	228
All Office Machine Operators	4	4	0	0	0
Accounting Clerks	8	9	1	0	1
Bookkeepers, Hand	76	87	11	17	28
Cashiers	323	368	45	75	120
General Clerks, Office	57	65	8	13	21
Order Clerks	42	48	6	10	16
Receptionists	3	3	0	0	0
Secretaries	19	22	3	4	7
All Other Office Clerical Workers	38	43	5	8	13
Stock Clerks, Stockroom, Warehouse, or Storage Yard	62	70	8	8	16
All Other Plant Clerical Workers	16	18	2	4	6
TOTAL SALES WORKERS	770	871	101	99	200
Sales Representatives, Technical	23	26	3	4	7
Sales Representatives, Nontechnical	217	245	28	37	65
Sales Clerks (Exclude Cashiers)	530	599	69	58	127
TOTAL ALL OCCUPATIONS	3,958	4,476	518	599	1,117

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

MANAGERS & OFFICERS

- All Other Managers & Officers
  - Directors, Food & Beverage &/or Mgrs., Catering

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Writers &/or Editors
  - Musicians, Instrumental
  - Personnel & Labor Relations Specialists

SERVICE WORKERS

- All Other Service Workers
  - Guards & Doorkeepers
  - Checkers, Fitting Room
  - Store Detectives

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Diesel Mechanics
  - Mechanics, Maintenance
  - Refrigeration Mechanics & Air Conditioning Mechanics
  - Television Servicers & Repairers, Radio &/or Tape Recorder Repairers
  - Gas & Electric Appliance Repairers

- All Other Skilled Craft Workers
  - Merchandise Displayers & Window Trimmers
  - Glaziers
  - Stationary Engineers
  - Alteration Tailors

MAINTENANCE & PRODUCTION (cont'd.)

  - Watchmakers
  - Opticians, Dispensing &/or Optical Mechanics
  - Bakers
  - Wood Machinists

- All Other Operatives & Semiskilled Worked
  - Marine Service Station Attendants
  - Sewing Machine Operators, Regular Equip. - Garment
  - Mobile Home Set-up Operators

- All Other Laborers & Unskilled Workers
  - Mobile Home Repairers

CLERICAL WORKERS

- All Other Office Machine Operators
  - Bookkeeping &/or Billing Machine Operators

- All Other Office Clerical Workers
  - Adjustment Clerks
  - Credit Authorizers
  - Personnel Clerks
  - Switchboard Operators
  - Switchboard Operator/Receptionists
  - Typists
  - Clerical Supervisors, Office or Plant

- All Other Plant Clerical Workers
  - Shipping &/or Receiving Clerks
  - Weighers, Record Keeping
  - Marking Clerks

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

YUMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	638	746	108	84	193
Managers, Merchandise	86	101	15	8	23
Managers, Store	273	319	46	34	80
Managers, Automobile Service Department	18	21	3	4	7
Managers, Automobile Parts Department	16	19	3	3	6
Wholesalers	52	61	9	8	17
Managers, Restaurant, Coffee Shop, or Liquor Establishment	87	102	15	14	29
All Other Managers & Officers	106	124	18	13	31
TOTAL PROFESSIONAL WORKERS	141	168	27	16	43
All Engineers	4	5	1	0	1
Systems Analysts, Electronic Data Processing	5	6	1	0	1
Buyers	36	43	7	4	11
Accountants & Auditors	31	37	6	4	10
Personnel & Labor Relations Specialists	11	13	2	0	2
All Other Professional Workers	54	64	10	8	18
TOTAL TECHNICAL WORKERS	35	42	7	0	7
Electrical & Electronic Technicians	11	13	2	0	2
All Engineering Technicians	15	18	3	0	3
All Other Technical Workers	9	11	2	0	2
TOTAL SERVICE WORKERS	1,951	2,309	358	401	759
Janitors, Porters, & Cleaners	87	103	16	14	30
Bartenders	111	131	20	16	36
Dining Room Attendants, Bartender Helpers, or Cafeteria Attendants	55	65	10	4	14
Butchers &/or Meat Cutters	66	78	12	4	16
Hosts/Hostesses, Restaurant, Lounge, or Coffee Shop	24	28	4	7	11
Kitchen Helpers	209	247	38	44	82
Waiters or Waitresses	507	600	93	131	224
Counter Attendants, Lunchroom, Coffee Shop, or Cafeteria	111	131	20	28	48
Cooks, Short Order &/or Specialty Fast Foods	157	186	29	27	56
Cooks, Restaurant	151	179	28	26	54
Food Preparation & Service Workers, Fast Food Restaurant	403	477	74	84	158
All Other Service Workers	70	83	13	16	29
TOTAL MAINTENANCE & PRODUCTION WORKERS	1,788	2,123	335	150	485
Mechanics, Automotive	209	248	39	13	52
Body Repairers, Automotive	10	12	2	0	2
Diesel Mechanics	53	63	10	4	14
Office Machine &/or Cash Register Servicers	4	5	1	0	1
All Other Mechanics & Repairers	55	75	10	4	14
Truck Drivers	66	78	12	4	16
Cabinetmakers	30	36	6	3	9
Cleaners, Vehicle	34	40	6	0	6
Delivery & Route Workers	114	135	21	8	29
Supervisors, Nonworking	74	88	14	6	20
Industrial Truck Operators	6	55	9	4	13
Machinists	11	13	2	0	2
Maintenance Repairers, General Utility	59	70	11	4	15
Order Fillers	8	9	1	0	1
Production Packagers	73	87	14	14	28
Baggers	79	94	15	4	19
Fuel Pump Attendants &/or Lubricators	141	167	26	14	40

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

YUMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due To Growth 1979-1983	Job Openings Due To Separations 1979-1983	Total Job Openings 1979-1983
Tire Changers	26	31	5	4	9
Stock Clerks, Sales Floor	129	153	24	8	32
Mobile Home Repairers	19	23	4	1	5
All Other Skilled Craft Workers	36	43	7	4	11
All Other Operatives & Semiskilled Workers	106	126	20	12	32
All Other Laborers & Unskilled Workers	406	482	76	39	115
TOTAL CLERICAL WORKERS	1,453	1,736	283	313	596
Bookkeeping &/or Billing Machine Operators	12	14	2	4	6
All Other Office Machine Operators	7	8	1	0	1
Accounting Clerks	81	97	16	19	35
Bookkeepers, Hand	107	128	21	25	46
Cashiers	600	717	117	144	261
General Clerks, Office	203	242	39	50	89
Personnel Clerks	19	23	4	6	10
Secretaries	45	54	9	12	21
Clerical Supervisors, Office or Plant	20	24	4	4	8
All Other Office Clerical Workers	85	102	17	21	38
Shipping Packers	117	140	23	12	35
Shipping &/or Receiving Clerks	33	40	7	4	11
Weighers, Record Keeping	7	8	1	0	1
Stock Clerks, Stockroom, Warehouse, or Storage Yard	113	135	22	12	34
All Other Plant Clerical Workers	4	5	1	0	1
TOTAL SALES WORKERS	1,110	1,315	205	159	364
Sales Representatives, Technical	41	49	8	8	16
Sales Representatives, Nontechnical	469	556	87	82	169
Sales Clerks (Exclude Cashiers)	582	689	107	65	172
All Other Sales Workers	18	21	3	4	7
TOTAL ALL OCCUPATIONS	7,116	8,439	1,323	1,123	2,446

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

MANAGERS & OFFICERS

All Other Managers & Officers
  Directors, Food & Beverage &/or Mgrs., Catering

PROFESSIONAL WORKERS

All Other Engineers
  Mechanical Engineers

All Other Professional Workers
  Chemists
  Musicians, Instrumental
  Pharmacists
  Designers

TECHNICAL WORKERS

All Other Engineering Technicians
  Computer Programmers
  Drafters

All Other Technicians
  Pharmacy Helpers

SERVICE WORKERS

All Other Service Workers
  Guards & Doorkeepers
  Bakers
  Pantry, Sandwich &/or Coffee Makers
  Service Workers
  Cosmetologists &/or Hairstylists
  Supervisors, Nonworking Service
  Store Detectives

MAINTENANCE & PRODUCTION WORKERS

All Other Mechanics & Repairers
  Farm Equipment Mechanics
  Engineering Equipment Mechanics
  Mechanics, Maintenance
  Refrigeration Mechanics & Air Conditioning Mechanics
  Television Servicer & Repairers, Radio &/or Tape Recorder Repairers
  Coin Machine Service &/or Vending Machine Repairers
  Motorboat Mechanics

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRADE

YUMA COUNTY

MAINTENANCE & PRODUCTION WORKERS (cont'd.)

- Gas & Electric Appliance Repairers

- All Other Skilled Craft Workers
  - Carpenters
  - Merchandise Displayers & Window Trimmers
  - Jewelers &/or Silversmiths
  - Sheet Metal Workers
  - Alteration Tailors
  - Household Appliance Installers
  - Furniture Finishers
  - Painters, Automotive

- All Other Operatives & Semiskilled Workers
  - Marine Service Station Attendants
  - Welders & Flamecutters
  - Furniture Assemblers & Installers
  - Boat Patchers, Plastic
  - Conveyor Operators or Tenders
  - Mobile Home Set-up Operators

- All Other Laborers & Unskilled Workers
  - Helpers, Trades

CLERICAL WORKERS

- All Other Office Machine Operators
  - Computer Operators
  - Keypunch Operators

- All Other Office Clerical Workers
  - Collectors
  - Credit Authorizers
  - Order Clerks
  - Payroll &/or Timekeeping Clerks
  - Receptionists
  - Service Clerks
  - Switchboard Operators
  - Switchboard Operators/Receptionists
  - Typists

SALES WORKERS

- All Other Sales Workers
  - Sales Clerk Supervisors
  - Demonstrators

METHODOLOGY

Limitations of the Data

The projection methods do not account for cyclical, seasonal, and such external factors as sudden and large establishment openings or closings. The methodology also assumes that the labor market areas are self-contained and generally devoid of significant levels of commuting and migration from one area to another for employment.

The occupational data in this publication only refer to employees who earned a wage or salary. Self-employed and unpaid family workers are not represented in the statistics.

Sample Selection and Response Rate

Occupational estimates for the trade industry were developed from a survey of employers throughout the State. Employers who were asked to participate in the survey were selected from a master employer file of firms doing business in Arizona, using standardized sampling techniques. Establishments selected for the sample were those that employed four to ninety-nine employees. All establishments having 100 or more employees were surveyed. The entire sample was composed of 5,806 firms with a usable response rate of 92.9 percent.

Employment Projections

Trade employment was projected using regression analysis and was adjusted to reflect recent industry developments. The 1983 occupational employment was calculated by applying adjusted staffing pattern ratios (as determined by the survey) to the industry projections. The adjustments to the ratio reflect national trends of evolving occupational distribution.[1]

Job Openings

The difference between 1979 and 1983 employment for each occupation represents expected job openings due to growth. Job openings due to separations were calculated by interpolating 1970 and 1985 separation rates for each occupation[2] and applying them to the occupational employment projections. Total job openings is the sum of openings due to growth and separations.

---

[1] "Tomorrow's Manpower Needs," Vol. IV, BLS, Feb. 1971 pp. 33-35

[2] "Tomorrow's Manpower Needs," Supplement No. 4, BLS, 1974, pp. 11-16.

LABOR MARKET INFORMATION PUBLICATIONS
OCCUPATIONAL EMPLOYMENT STATISTICS
BOX 6123, SITE CODE 920B
PHOENIX, ARIZONA 85005

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
EMPLOYMENT SECURITY MAIL
LAB 449

FIRST CLASS MAIL

CONGRESSIONAL INFO. SERVICE 1
MONA POTTER, SRI ACQUISITIONS
4520 EAST-WEST HIGHWAY,STE.200
WASHINGTON D.C.

In cooperation with the Bureau of Labor Statistics, U.S. Department of Labor. Preparation of this document was financed in part through the Comprehensive Employment and Training Act (P. L. 93-203), Governor's Special Grant, from the U.S. Department of Labor.

S 0465-2.7

TRANSPORTATION, COMMUNICATIONS, PUBLIC UTILITIES

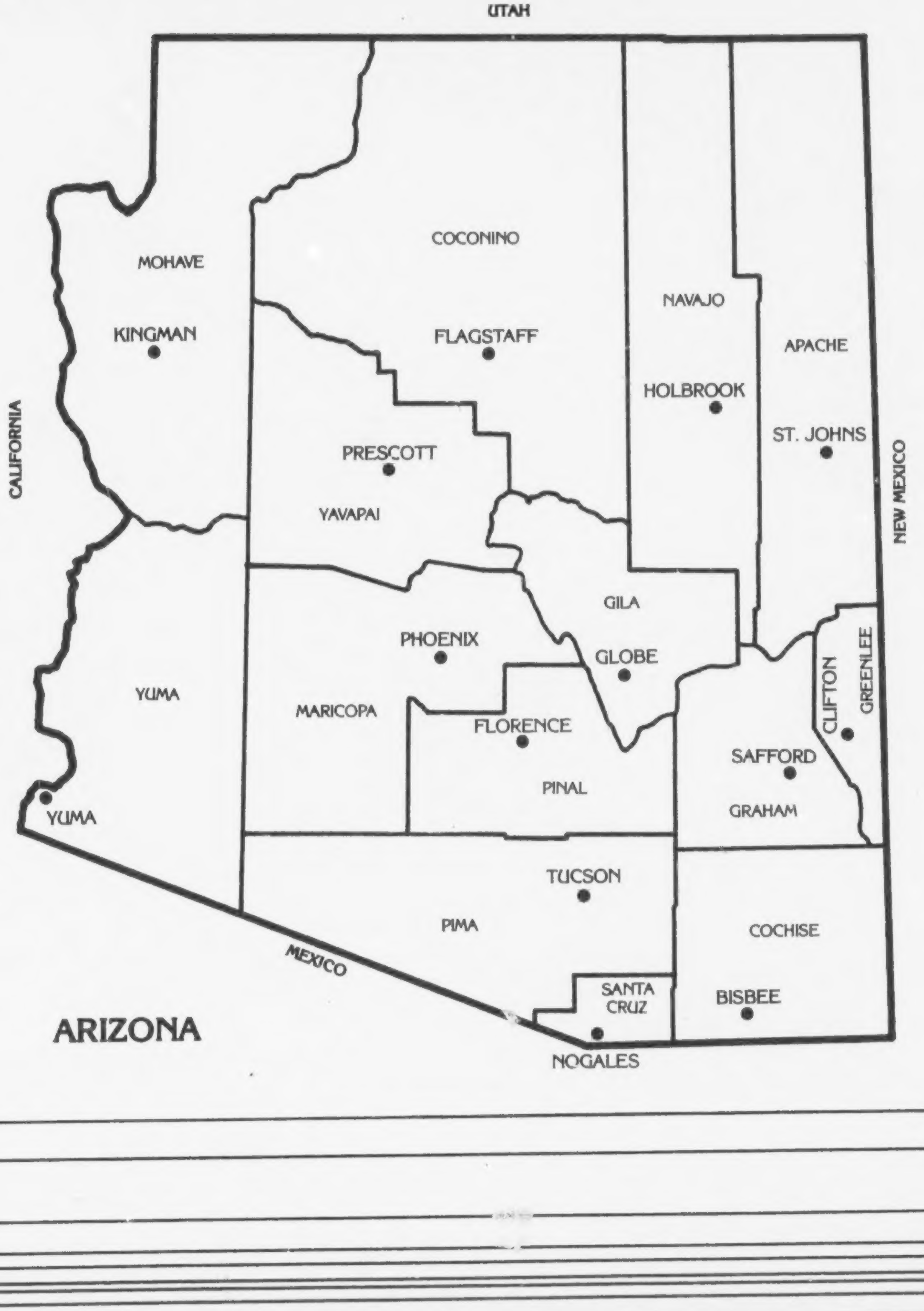
JANUARY 1981

DES-5301 (1-81)

arizona occupational profiles

A Labor Market Information Publication of the Arizona Department of Economic Security

MAR 03 1981


UTAH
CALIFORNIA
NEW MEXICO
MEXICO
MOHAVE
KINGMAN
COCONINO
FLAGSTAFF
NAVAJO
HOLBROOK
APACHE
ST. JOHNS
PRESCOTT
YAVAPAI
GILA
GLOBE
PHOENIX
MARICOPA
YUMA
YUMA
FLORENCE
PINAL
CLIFTON
GREENLEE
SAFFORD
GRAHAM
TUCSON
PIMA
COCHISE
SANTA CRUZ
BISBEE
NOGALES
ARIZONA

OCCUPATIONAL PROFILES

The Transportation, Communications, and Public Utilities Occupational Profile is one in a series of publications produced from information developed by the Occupational Employment Statistics survey. The survey is used to collect county and statewide employment data for over 1,100 occupations in Arizona. From these surveys, which require the cooperation of the Arizona business community, current employment in the various occupations is determined, and from this an occupational outlook is formulated. The Occupational Profiles contain the survey findings, and examine, individually, the industries of Arizona.

Industries recently surveyed and for which profiles are now available include:

Mining
Finance, Insurance, and Real Estate
Construction
Services
Government
Trade
Educational Services
Manufacturing
Transportation, Communications, and Public Utilities

For further information, or to comment on any aspect of this program, please write to the address on the back cover.

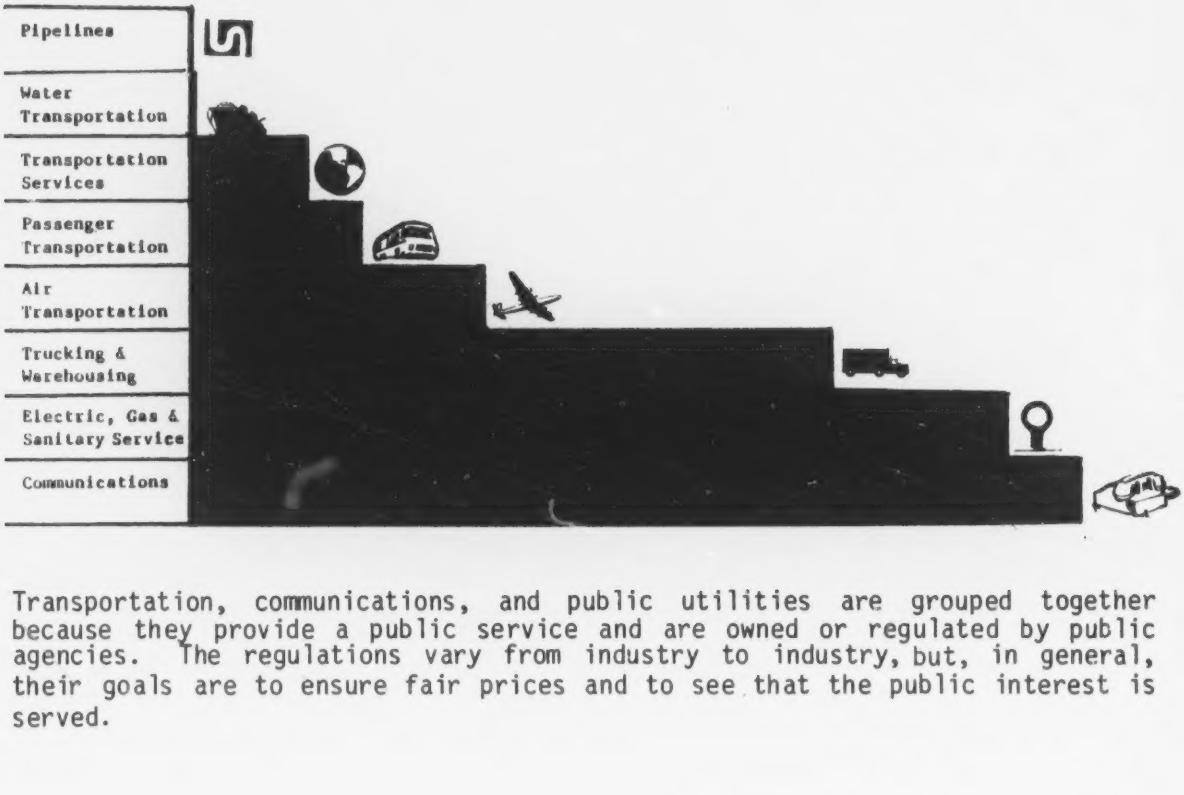
INDUSTRY INFORMATION

INDUSTRY DESCRIPTION

This publication provides occupational employment information for the regulated industries of transportation, communications, and public utilities. Regulated industries are found in the Standard Industrial Classification (SIC) Manual under codes 40-49. Of these, electric, gas, and sanitary services; trucking and warehousing; and communications contain the largest share of employees. Because governmental agencies share some of their functions, passenger and air transportation contain a substantially smaller portion of the employment. Water and pipeline transportation, and transportation services comprise less than 5 percent of the employment in the regulated industries.

Railroad and U.S. Postal Services' (SICs 40 and 43) employment is not included.

FIGURE 1: TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES EMPLOYMENT BY SECTOR



Transportation, communications, and public utilities are grouped together because they provide a public service and are owned or regulated by public agencies. The regulations vary from industry to industry, but, in general, their goals are to ensure fair prices and to see that the public interest is served.

TRANSPORTATION

INDUSTRY CHARACTERISTICS

Transportation workers move goods, materials, or people from one place to another and perform services incidental to transportation. Over half of Arizona's transportation workers are involved in motor freight.

Employment in transportation is concentrated in the Phoenix metropolitan area. Small firms dominate the industry and employ the majority of the workers. The larger firms, employing 100 people or more, are located in the Phoenix and Tucson metropolitan areas.

FIGURE 2: TRANSPORTATION EMPLOYMENT BY ACTIVITY MAY 1979

	Employment	Percent
Passenger Transport.	2,793	14.4
Motor Freight	9,824	50.6
Water	95	.5
Air	4,790	24.7
Pipeline	86	.4
Transport. Services	1,833	9.4

FIGURE 3: TRANSPORTATION EMPLOYMENT BY DISTRICT MAY 1979

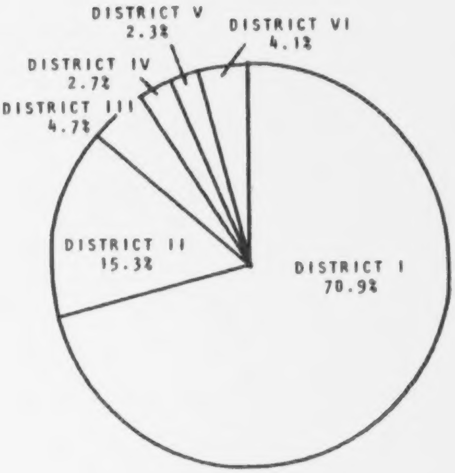
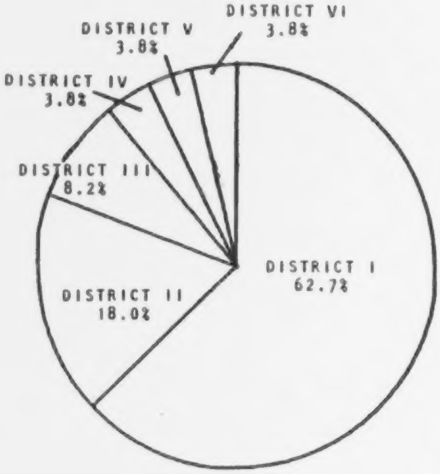


FIGURE 4: TOTAL ARIZONA EMPLOYMENT BY DISTRICT MAY 1979



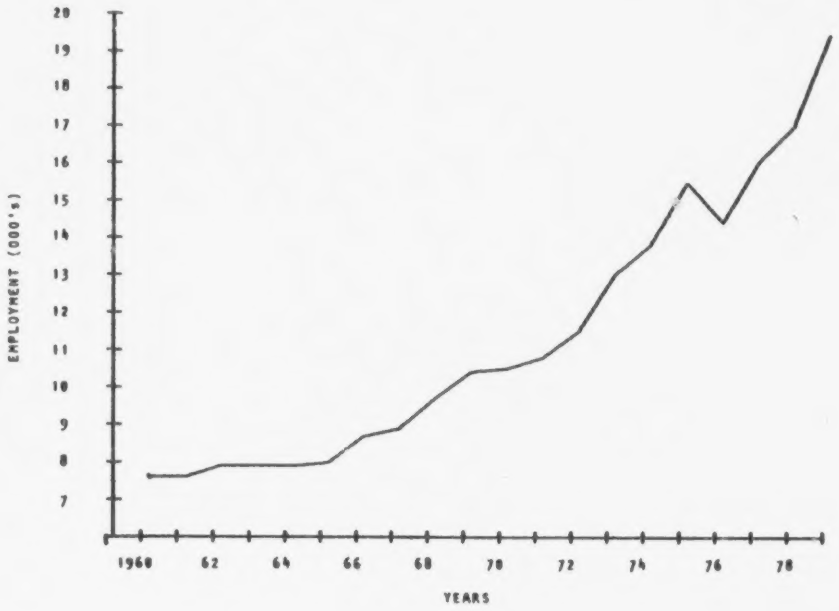
The districts in the graphs above and throughout this publication correspond with the state's counties as follows:

District I	Maricopa County (Phoenix)
District II	Pima County (Tucson)
District III	Apache, Coconino, Navajo, Yavapai counties
District IV	Mohave, Yuma counties
District V	Gila, Pinal counties
District VI	Cochise, Graham, Greenlee, Santa Cruz counties

INDUSTRY TRENDS

The transportation industry in Arizona has experienced moderate, stable growth in recent years, stimulated by the state's increasing population and business expansion.

FIGURE 5: WAGE AND SALARY EMPLOYMENT IN THE TRANSPORTATION INDUSTRY



The transportation industry is burdened by the rising cost and limited supply of energy. The industry is expected to shift from finite sources to renewable sources as our energy technology improves. Meanwhile, all sectors are attempting to increase productivity of each energy dollar through wise management.

Over half of all Arizona transportation workers are employed by motor freight and warehousing. Trucking deregulation legislation indicates that far-reaching changes lie ahead for the industry. Legislation passed by the United States Congress, called the Motor Carrier Act of 1980, will partially deregulate the industry and goes into effect on January 1, 1982. The legislation is expected to increase the number of trucks competing for freight and, as time goes on, some firms will probably be eliminated.

In Arizona, there was a deregulation referendum on the November 4th ballot, which passed overwhelmingly. The legislation, which will become effective July 1, 1982, is more comprehensive than the national legislation. The Arizona legislation applies to intrastate motor freight only and allows virtually anyone to haul goods at any price.

Many in the industry believe the state deregulation favors the large carriers. It is frequently argued that service in small communities will suffer. Others in the industry believe that new, perhaps small, trucking firms will move into and maintain service in the regional markets.

In light of the discussion of the effect of deregulation on small motor freight carriers, it is interesting to look at the industry in Arizona by size of firm. Almost 70 percent of the trucking firms employ nine or fewer people; however, over 45 percent of the people work for large firms employing 100 or more.

FIGURE 6: LOCAL AND LONG DISTANCE TRUCKING
PERCENTAGE EMPLOYMENT BY SIZE OF FIRM
MARCH 1980

Firm Size by Number of Employees	% of Firms	% of Employment
9 or fewer	69.6	9.7
10-19	11.0	8.9
20-49	11.0	19.3
50-99	4.3	16.6
100-249	3.7	34.8
250-499	.2	3.5
500-999	.2	7.2
1000+	0	0

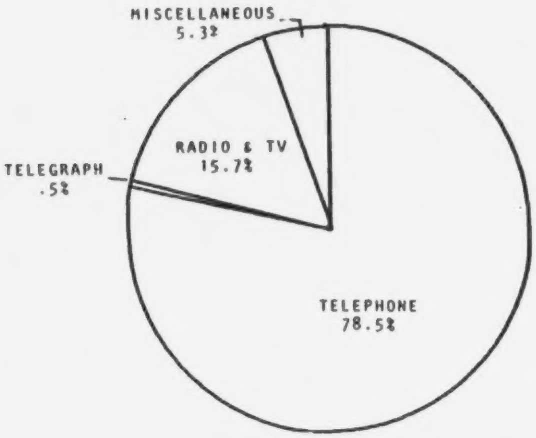
Employment growth in Arizona's air transportation industry, which has been substantial recently, will moderate over the next four years. Seventy-five percent of the 5,000 employees in the industry work for air carriers. The rest are primarily engaged in the operation and maintenance of airports, and in furnishing coordinated handling services for air freight or passengers.

COMMUNICATIONS

INDUSTRY CHARACTERISTICS

The communication industry's primary activity is the provision of telephone service to residential, commercial, and industrial customers. As shown below, the telephone communications sector accounts for close to 80 percent of the employment in communications.

FIGURE 7: COMMUNICATIONS EMPLOYMENT BY SECTOR
MAY 1979



The greatest demand for telephone service is in the metropolitan areas where large concentrations of industrial, business, and governmental establishments are located. This demand is reflected in the employment distribution that follows.

FIGURE 8: COMMUNICATIONS
EMPLOYMENT BY DISTRICT
MAY 1979

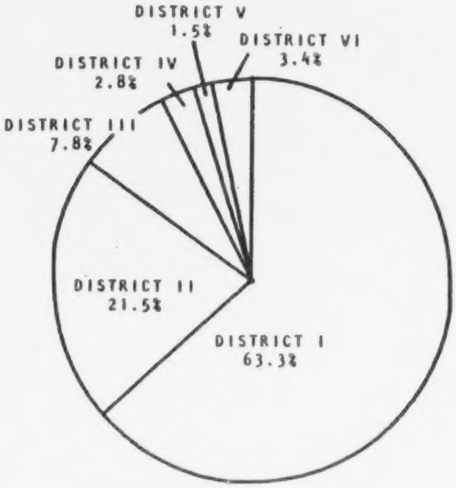
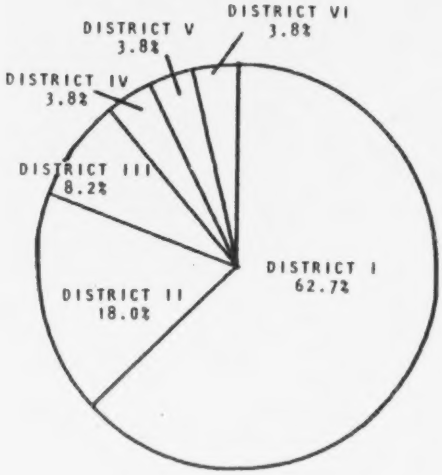


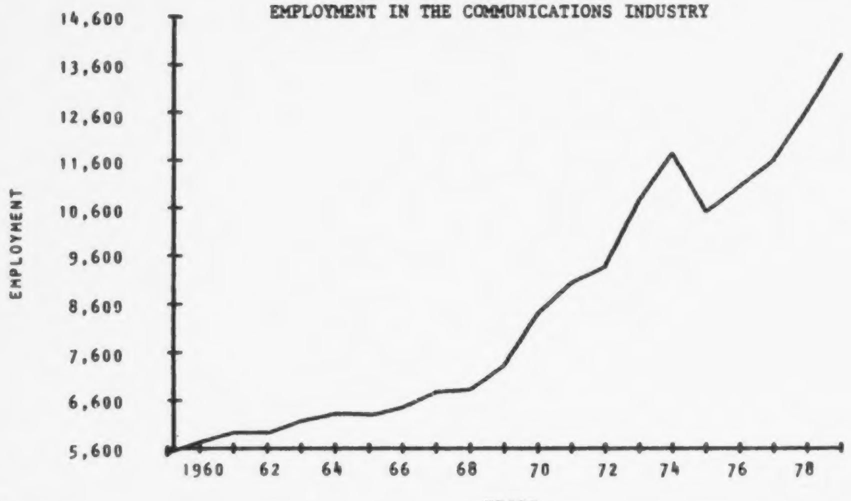
FIGURE 9: TOTAL ARIZONA
EMPLOYMENT BY DISTRICT
MAY 1979



INDUSTRY TRENDS

Employment in communications has grown fairly steadily in Arizona. Economic decline resulted in employment losses in 1975 and 1976, but the industry's employment picked up as the economy recovered.

FIGURE 10: WAGE AND SALARY EMPLOYMENT IN THE COMMUNICATIONS INDUSTRY



New technology is both increasing employee productivity and intensifying demand from customers. Programmable machines provide services including push-button calling, three-way conference calls, international direct-distance dialing, and call-forwarding. Technology is used for remote maintenance of electronic switches, automatic testing and repair, administrative activities, and automated operator assistance systems. The number of telephones in operation per telephone communications employee has increased in Maricopa County from about 130 in 1973 to 165 in 1979. A similar increase in employee productivity has been experienced in Pima County.

Radio and television broadcasting employs about 15 percent of all communications workers. This sector of the industry is expected to grow quite slowly through 1983. The Federal Communications Commission (FCC) restricts the licensing of new radio and television stations, thus limiting employment growth. Technological developments will also limit additions of personnel in some occupations.

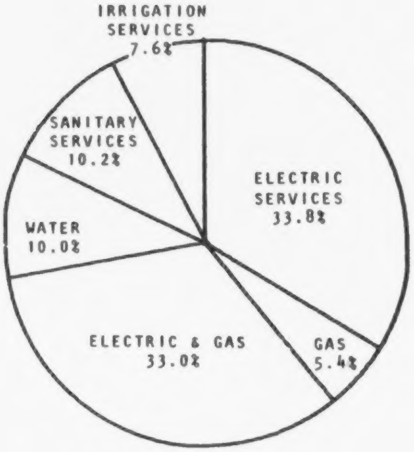
A bright light in the communications industry is cable television. Susan Bitter Smith, Executive Director of Arizona Cable Television Association, (ACTA) reports that "growth of the cable industry in Arizona is expected to skyrocket in the next year, as the cities of Tucson, Scottsdale, Glendale, Florence, and Coolidge are all in the process of granting a license to cable television." Cable television (CATV) offers customers programs produced specifically for cable television by using cables instead of airwaves.

PUBLIC UTILITIES

INDUSTRY CHARACTERISTICS

This major group includes firms that generate, transmit, and/or distribute electricity, gas, or steam. Firms engaged in the collection, distribution, and disposal of water are also included.

FIGURE 11: PUBLIC UTILITIES EMPLOYMENT BY SECTOR



Employment within the industry is distributed similarly to total Arizona employment, as depicted below. Location of power plants in District III, including the new Coronado Power Plant near St. Johns and the expansion of the Cholla Plant at Joseph City, give the area a relatively large share of public utilities employment.

FIGURE 12: PUBLIC UTILITIES EMPLOYMENT BY DISTRICT MAY 1979

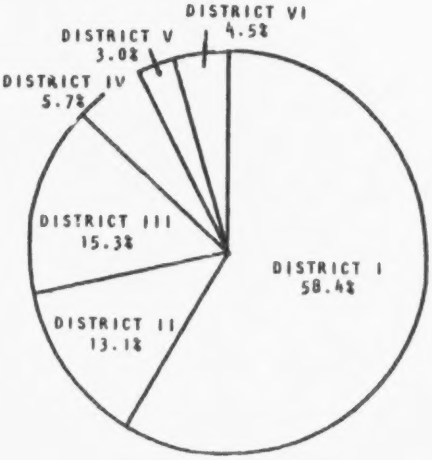
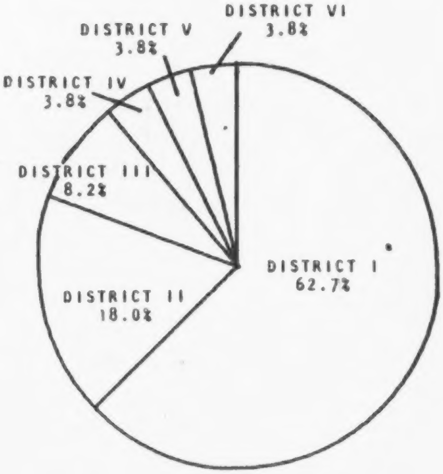


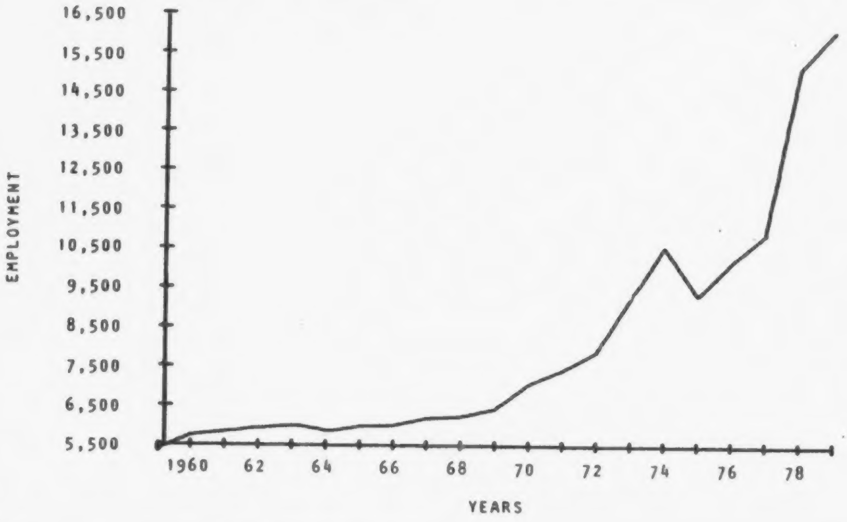
FIGURE 13: TOTAL ARIZONA EMPLOYMENT BY DISTRICT MAY 1979



INDUSTRY TRENDS

Growth of Arizona's public utilities industry is shown below. The industry is expecting continued moderate growth through 1983.

FIGURE 14: WAGE AND SALARY EMPLOYMENT
IN PUBLIC UTILITIES



Employment in electric services is expected to grow somewhat faster than the other utilities as power plants are built to meet the state's growing demand for electricity. Mary Ann Monahan, Personnel Manager at Tucson Electric Power Company, expects employment growth for that company during the next four years will be "primarily the result of the new generating plant in northeastern Arizona."

Employment growth in utilities relates to increasing consumption of electricity, gas, and water. An example of this increasing consumption is the number of utility connections for energy. From 1970 to 1978, electricity connections increased by over 60 percent in the Phoenix area and by over 50 percent in the Tucson area.

FIGURE 15: UTILITY CONNECTIONS
1969-1979

Year	Phoenix Area		Tucson Area	
End	Electric	Gas	Electric	Gas
1969	284,621	217,883	104,337	96,541
1970	295,783	226,580	112,681	101,567
1971	315,810	238,537	121,457	109,476
1972	339,957	248,578	130,648	118,244
1973	381,349	260,248	140,211	126,722
1974	405,876	264,466	145,698	132,054
1975	414,833	262,414	149,529	136,333
1976	429,935	266,728	154,289	138,085
1977	463,806	282,497	160,587	138,344
1978	496,799	282,780	169,974	139,247
1979	535,045	282,455	179,973	141,223

Source: Arizona Statistical Review. September 1980, Valley National Bank of Arizona.

Another measure of energy consumption is found in the sales of electric power, where sales have continued to increase in recent years despite conservation efforts. According to a 1979 consultant report to the Corporation Commission, electric sales by Arizona Public Service will nearly double from 1977 to 1988, and sales for Tucson Electric Power Company will increase nearly 70 percent.

FIGURE 16: SALES OF ELECTRIC POWER
IN ARIZONA
(in Millions of KWH)

Month	1976	1977	1978	1979
January	1,868.0	1,887.4	1,870.5	2,206.5
February	1,695.0	1,710.3	1,736.6	1,888.8
March	1,943.8	1,969.7	1,802.3	2,045.0
April	1,863.2	1,936.2	1,833.0	2,022.6
May	2,157.2	2,007.1	2,139.1	2,302.5
June	2,489.4	2,603.2	2,657.0	2,739.8
July	2,826.8	2,861.6	2,991.8	3,153.2
August	2,856.3	2,880.7	2,924.2	2,997.0
September	2,357.3	2,416.8	2,547.3	2,833.7
October	1,891.6	1,917.5	2,128.7	2,265.0
November	1,770.0	1,682.6	1,849.3	2,047.8
December	1,981.5	1,779.0	2,125.4	2,177.4
TOTAL	25,700.1	25,652.1	26,605.2	28,679.3

Source: Arizona Statistical Review. September 1980, Valley National Bank of Arizona.

Due to the growing use of automatic controls, employment will not increase as fast as electric power production. The use of larger and more efficient equipment will also improve employee productivity. For example, it takes only one turbine operator to control a turbo-generator regardless of the generator's size. This new technology, as well as various regulations, will affect manpower growth in this changing industry.

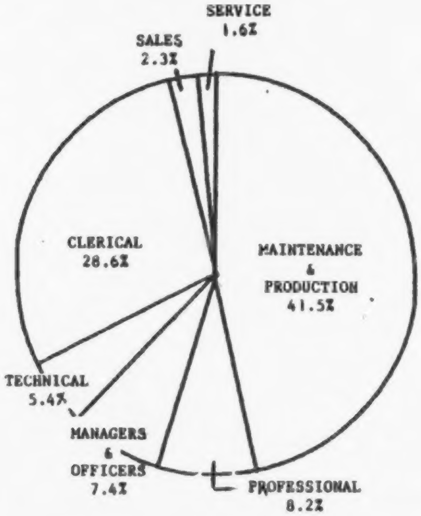
Public utility companies are working to reduce the state's dependence on expensive and limited oil. Coal-fired generating plants produce a greater share of Arizona's electricity than ever before, and the nation's largest nuclear power plant, Palo Verde, is under construction 50 miles west of Phoenix. Innovations and testing of solar-powered generators also hold promise for the future. Some of the effects of these new developments upon employment are discussed in the Occupational Trends section of this publication.

OCCUPATIONAL INFORMATION

OCCUPATIONAL ANALYSIS

Employment in transportation, communications, and public utilities is dominated by maintenance and production workers. Clerical workers are also heavily represented. These relationships are graphed below.

FIGURE 17: OCCUPATIONS IN TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES
MAY 1979



In transportation, operatives are the largest group of workers. More tractor-trailer drivers are employed than any other occupation. Other operatives frequently reported include drivers of heavy trucks (capacity of more than three tons) and light trucks (capacity under three tons).

Tractor-trailer drivers drive long distances, sometimes at night, and may load and unload their trucks and perform routine maintenance. Minimum qualifications, set by the Interstate Commerce Commission include: 21 years of age, able-bodied, good hearing and vision, at least one year's driving experience, and a good driving record. Many employers have additional standards.

Women represent a minority in trucking, but their numbers continue to increase. The idea that driving is a man's occupation is still prevalent; however, if a woman gets adequate instruction, accurate information, is willing to push to get jobs, and works competently, she can expect success.

Rewards of professional truck driving often mentioned by drivers include good income, a feeling of independence, and the opportunity to travel. Dave Stallings of CTI, inter and intra state haulers of bulk cement and construction materials, foresees that if the proposed deregulation becomes a reality, the number of drivers will probably increase. He cautions that "income from the occupation could also drop in an attempt to cut costs to be more competitive."

The communications industry employs many clerical workers to help provide vital public services. Customer service representatives and central office operators are frequently reported occupations (Figure 18). Technological improvements will limit the employment of operators; nevertheless, many workers will be hired each year to replace experienced operators who retire, stop working, or advance to other occupations.

The dominant professional occupation in telephone communications is engineering. Engineers in communcations plan cable and microwave routes, central office and PBX equipment installations, and communication systems for new buildings, as well as engage in research and development of new equipment. Other professional workers in the sector include personnel and labor relations specialists and public relations practitioners.

Job opportunities in radio and television are limited. Job seekers are restricted to existing television and radio stations where turnover is low and competition is keen. Jim Martinez, Director of Public Affairs at KPNX, states that they look for employees with "substantial experience in their fields. For example, in time-sales, we look for college graduates with five years sales experience in radio and television..." He goes on to say that television and radio is probably "one of the most competitive fields in the world. New graduates cannot expect to find employment in the Phoenix metropolitan area." The novice should be prepared to go to a small or smaller city where entrance is possible, but competitive.

Cable television has emerged as a new force in communications. Job opportunities for cable installers, technicians, marketing, sales, and clerical workers will be created as CATV systems in Arizona grow. Susan Bitter Smith (ACTA) estimates a need for approximately 75 additional cable installers and 50 additional technicians in Maricopa County during 1981. The Tucson license is expected to be granted sometime in the spring of 1981, creating a need for about 30 cable installers and 25 technicians. Outside of Maricopa County and Pima County, job openings are estimated at 30 cable installers and 25 technicians during 1981. Ms. Smith adds "typically, installers can expect to make from $4.00 per hour to $5.50 per hour. Technicians can expect to make from $4.50 to $6.00 per hour."

After the initial installation process, the demand for installers will drop. Installers will then be needed to lay cable in new residential developments, connect new customers' televisions, and service cables already in place. Skills learned as a cable television installer can be transferred to other areas of the communications industry.

About half of the electric, gas, and sanitary services industry's employees are found in maintenance and production occupations. Many of these workers install and repair equipment or powerlines. Demand for these occupations is expected to increase as the construction industry improves.

Women are now being sought for craft occupations that have been traditionally male dominated. Joseph Gelinas, Vice President of Employee Relations at Arizona Public Service Company, comments that APS has, in the recent past, initiated training programs designed to encourage women to begin careers as linemen and electricians. He cautions that "these jobs involve continual work around high voltage electricity."

Mary Ann Monahan (Tucson Electric Power Company) states that Tucson Electric "actively seeks women in line construction, transmission, and meter reading." She stresses that these jobs have not been changed or altered. Women considering entering a trade with the utilities can expect responsibilities equal to the men.

Employment opportunities in highly technical fields are being created by nuclear power technology. Nationwide, engineers, scientists, and technicians made up approximately 45 percent of the nuclear industry work force, according to a survey done by the Bureau of Labor Statistics in the fall of 1977. Qualified engineers and technicians in instrumentation and control will be in greater demand during the next four years than in the past; however, the actual number of job opportunities will be limited. People will also be needed to work in radiation protection, computer applications, and fuel management.

Joseph Gelinas (APS) advises that a career as an instrument control technician in nuclear power has a great deal to offer the graduate of a two-year junior college pre-engineering curriculum. The new employee "continues in a trainee capacity for two years." At that time he or she has "the equivalent of a bachelors degree and can find employment in any part of the nation." Gelinas continues, "fully qualified, experienced instrument control technicians earn around $25,000 annually, with potential for increased earnings from overtime work."

The solar energy industry is, for the most part, in the phase of research and development. Job opportunities are emerging in the manufacturing and sale of solar devices. Future job openings in solar-related occupations in public utilities, however, are largely dependent on Federal funding of research and development projects. A 1979 Department of Energy task force report on education and training in the solar industry states that "the most difficult to hire solar occupations include engineers, atmospheric scientists, operations systems designers, researchers, and college/university teachers." The aspiring solar engineer is advised to pursue a traditional engineering curriculum. The industry employs primarily mechanical engineers.

Figure 18 lists the most commonly occurring occupations in transportation, communications, and public utilities. The expected number of job openings during the next four years is also listed. The number of job openings represents growth of the industry and separations from the labor force and do not account for labor turnover.

FIGURE 18: MOST FREQUENTLY OCCURING OCCUPATIONS IN ARIZONA'S TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES INDUSTRIES

	Employment 1979	Job Openings 1979-83
Tractor-Trailer Drivers	2,572	567
General Office Clerks	1,584	634
Supervisors, Nonworking	1,563	381
Customer Service Representatives	1,352	541
Central Office Operators	1,244	588
Truck Drivers, Light	1,027	226
Truck Drivers, Heavy	1,021	225
Secretaries	881	383
Electrical & Electronic Technicians	857	184
Electrical & Electronic Engineers	791	167
Central Office Repairers	719	163
Bus Drivers	684	192
Sales Representatives	650	178
Line Installers, Repairers	629	131
Travel Agents	616	181
Ticket Agents	600	181
Delivery & Route Workers	574	127
Accounting Clerks	572	221
Radio Mechanics	564	130
Meter Readers, Utilities	563	118
Typists	531	244
Station Installers	519	109
Dispatchers	516	145
Clerical Supervisors	499	141
Electricians	472	113
Announcers	463	102
Truck Drivers' Helpers	460	120
Directory Assistance Operators	455	215
Aircraft Mechanics	447	93
Truck Drivers	423	94
Automotive Mechanics	395	89
Airplane Pilots	388	81
Diesel Mechanics	383	88
Taxi Drivers	356	102
Cable Installers	354	66
Transportation Agents	351	105

OCCUPATIONAL STRUCTURE

The following tables provide employment estimates and projected employment and job openings for the counties and the state.

When using the data, please note the following:

1) The data reflect full and part-time wage and salary employment only, and does not include self-employed or unpaid family workers.

2) Total job openings represent the number of openings due to growth of the industry and separations from the labor force. They do not account for labor turnover, i.e., openings created when a worker changes jobs, leaving the job to be filled by someone else. These vacancies are generally the largest source of job openings.

3) The tables represent a summation of surveys across specific industry categories within the classification as a whole. The estimating procedure for the OES Program does not provide for calculation of relative error (a reliability measure) across industry sectors.

4) To eliminate the possible disclosure of confidential employer information, occupations have been added to the appropriate "all other" or residual category if: less than three firms reported a single occupation; one firm reported more than 50 percent of the occupational estimate; two firms combined reported more than 75 percent of the occupational estimate.

5) The estimation and projection technique does not possess the degree of accuracy that may be implied by small employment changes and demand figures.

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

STATEWIDE

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	3,411	7.4	3,961	7.4	974
TOTAL PROFESSIONAL WORKERS	3,733	8.2	4,361	8.2	967
Chemical Engineers	11	0.0	13		2
Civil Engineers	44	0.1	51		11
Electrical & Electronic Engineers	791	1.7	924		167
Industrial Engineers	22	0.0	26		4
Mechanical Engineers	144	0.3	168		31
Nuclear Engineers	2	0.0	2		0
All Other Engineers	351	0.8	410		78
Natural & Mathematical Scientists	10	0.0	12		2
Mathematical Scientists	7	0.0	8		1
All Other Physical Scientists	1	0.0	1		0
Systems Analysts, Electronic Data Processing	71	0.2	83		16
Teachers, Vocational Education or Training	79	0.2	92		25
Photographers	64	0.1	75		17
Television Camera Operators	80	0.2	93		25
Purchasing Agents &/or Buyers	66	0.1	77		19
Accountants & Auditors	226	0.5	264		72
Announcers	463	1.0	541		102
Broadcast News Analysts	125	0.3	146		29
Commercial Artists	13	0.0	15		6
Writers &/or Editors	61	0.1	71		22
Film Editors	34	0.1	40		14
Lawyers	13	0.0	15		2
Librarians, Professional	14	0.0	16		6
Personnel & Labor Relations Specialists	132	0.3	154		38
Public Relations Practitioners	20	0.0	23		7
Reporters & Correspondents	66	0.1	77		23
Right-of-Way Agents	22	0.0	26		8
Technical Directors	14	0.0	16		2
Travel Agents &/or Travel Accomodations Appraisers	616	1.3	720		181
Home Economists	1	0.0	1		0
All Other Professional Workers	170	0.4	199		55
TOTAL TECHNICAL WORKERS	2,488	5.4	2,907	5.4	568
Computer Programmers	132	0.3	154		30
Drafters	96	0.2	112		24
Electrical & Electronic Technicians	857	1.9	1,001		184
Surveyors	32	0.1	37		5
Sound Recording & Reproduction Technicians	6	0.0	7		1
Broadcast Technicians	128	0.3	150		28
Light Technicians	19	0.0	22		3
Estimators & Drafters, Utilities	79	0.2	92		21
All Other Engineering Technicians	303	0.7	354		77
Science Technicians	2	0.0	2		0
Flight Engineers	35	0.1	41		6
Airplane Pilots	388	0.8	453		81
Radio Operators	28	0.1	33		9
All Other Technical Workers	383	0.3	448		98
TOTAL SERVICE WORKERS	745	1.6	866	1.6	304
Janitors, Porters, & Cleaners	216	0.5	251		69
Guards & Doorkeepers	27	0.1	31		4
Food Service Workers	27	0.1	31		8
Flight Attendants	326	0.7	379		173
Supervisors, Nonworking	73	0.2	85		17
Guides, Travel	9	0.0	11		6
Baggage Porters	55	0.1	64		21
All Other Service Workers	12	0.0	14		6

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

STATEWIDE (Continued)

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
TOTAL MAINTENANCE & PRODUCTION WORKERS	21,329	46.5	24,852	46.6	2,055
Mechanics, Aircraft	447	1.0	521		93
Mechanics, Aircraft, Apprentice	12	0.0	14		2
Mechanics, Automotive	395	0.9	460		89
Mechanics, Automotive, Apprentice	19	0.0	22		3
Diesel Mechanics	383	0.8	446		88
Diesel Mechanics, Apprentice	10	0.0	12		2
Electric Meter Installers	172	0.4	200		36
Engineering Equipment Mechanics	16	0.0	19		3
Hydroelectric Machinery Mechanics	63	0.1	73		14
Mechanics, Maintenance	94	0.2	110		24
Radio Mechanics	564	1.2	657		130
Refrigeration/Air Conditioning Mechanics	1	0.0	1		0
Refrigeration/Air Conditioning Mechanics, Apprentice	1	0.0	1		0
Treatment Plant Mechanics	15	0.0	17		2
Household Appliance Repairers	28	0.1	33		9
Water Meter Installers	43	0.1	50		7
All Other Mechanics & Repairers	202	0.4	235		48
Truck Drivers	423	0.9	493		94
Truck Drivers, Heavy	1,021	2.2	1,190		225
Truck Drivers, Light	1,027	2.2	1,197		226
Tractor-Trailer Truck Drivers	2,572	5.6	2,997		567
Baggage Handlers	177	0.4	206		45
Bus Drivers	684	1.5	797		192
Cable Installers	354	0.8	412		66
Cable Repairers	170	0.4	198		36
Cable Repairers, Apprentice	1	0.0	1		0
Cable Splicers	285	0.6	332		55
Carpenters	35	0.1	41		10
Carpenters, Apprentice	1	0.0	1		0
Central Office Repairers	719	1.6	838		163
Cleaners, Vehicle	184	0.4	214		38
Control Room Operators, Steam	106	0.2	124		34
Corrosion Control Fitters	50	0.1	58		12
Crane, Derrick, & Hoist Operators	42	0.1	49		11
Delivery & Route Workers	574	1.3	669		127
Diesel Plant Operators	53	0.1	62		17
Electricians	472	1.0	550		113
Electricians, Apprentice	39	0.0	45		10
Auxiliary Equipment Operators	193	0.4	225		59
Supervisors, Nonworking	1,563	3.4	1,821		381
Frame Wirers	187	0.4	218		39
Gas Compressor Operators	37	0.1	43		10
Gas Pumping Station Operators	59	0.1	69		18
Ground Workers, Utilities	127	0.3	148		41
Heavy Equipment Operators	269	0.6	313		61
Industrial Truck Operators	202	0.4	235		45
Inspectors	53	0.1	62		17
Installers, Repairers, &/or Section Maintainers	139	0.3	162		33
Instrument Repairers	56	0.1	65		13
Line Installers, Repairers	629	1.4	733		131
Line Installers, Repairers, Apprentice	84	0.2	98		18
Machinists	274	0.6	319		67
Machinists, Apprentice	7	0.0	8		1
Maintenance Repairers, General Utility	193	0.4	225		46
Helpers, Trades	370	0.8	431		96
Oilers	67	0.1	78		19
Painters, Maintenance	37	0.1	43		10
Pipelayers	92	0.2	107		23
Plumbers &/or Pipefitters	45	0.1	52		11
Refuse Collectors	186	0.4	217		39

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

STATEWIDE (Continued)

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Sewage Plant Operators	11	0.0	13		2
Station Installers	519	1.1	605		109
Station Installers, Apprentice	6	0.0	7		1
Stationary Engineers	31	0.1	36		9
Substation Operators	50	0.1	58		12
Switchboard Operators, Generating Plant	71	0.2	83		16
Taxi Drivers	356	0.8	415		102
Telegraph Plant Maintainers	22	0.0	26		4
Trouble Locators, Test Desk	125	0.3	146		25
Trouble Shooters, Power Lines	147	0.3	171		34
Turbine Operators	78	0.2	91		25
Watershed Tenders	135	0.3	157		34
Water Treatment Plant Operators	27	0.1	32		9
Welders & Flamecutters	110	0.2	128		30
Fuel Pump Attendants &/or Lubricators	27	0.1	32		9
Tire Changers	18	0.0	21		3
Surveyor Helpers	33	0.1	39		10
Dispatchers, Load	48	0.1	56		12
Truck Driver Helpers	460	1.0	536		120
Line Service Attendants	320	0.7	373		88
Painters, Aircraft	14	0.0	16		2
Painters, Aircraft, Apprentice	2	0.0	2		0
Locker Plant Attendants	36	0.1	42		10
Ambulance Drivers &/or Attendants	501	1.1	584		137
Tree Trimmers	39	0.1	45		10
All Other Skilled Craft Workers	345	0.8	402		81
All Other Operatives & Semiskilled Workers	344	0.8	401		95
All Other Laborers & Unskilled Workers	1,131	2.5	1,318		297
TOTAL CLERICAL WORKERS	13,141	28.6	15,216	28.5	4,976
Bookkeeping &/or Billing Machine Operators	117	0.3	136		45
Computer Operators	103	0.2	119		28
Keypunch Operators	171	0.4	198		72
Peripheral EDP Equipment Operators	44	0.1	51		19
All Other Office Machine Operators	44	0.1	51		20
Stenographers	120	0.3	139		50
Accounting Clerks	572	1.2	662		221
Reservation Agents	150	0.3	174		45
Bookkeepers, Hand	223	0.5	258		86
Adjustment Clerks	32	0.1	37		13
Cashiers	150	0.3	174		59
Collectors	121	0.3	140		36
File Clerks	126	0.3	146		59
General Clerks, Office	1,584	3.5	1,834		634
Mail Clerks	88	0.2	102		30
Order Clerks	80	0.2	93		32
Payroll &/or Timekeeping Clerks	75	0.2	87		28
Personnel Clerks	33	0.1	38		15
Private Branch Service Advisors	32	0.1	37		13
Receptionists	119	0.3	138		56
Secretaries	881	1.9	1,020		383
Service Observers	42	0.1	49		20
Statistical Clerks	240	0.5	278		96
Switchboard Operators	88	0.2	102		42
Switchboard Operators/Receptionists	40	0.1	46		18
Messengers	6	0.0	7		1
Ticket Agents	600	1.3	695		181
Traffic Clerks	73	0.2	85		30
Typists	531	1.2	615		244
Clerical Supervisors	499	1.1	578		141
Directory Assistance Operators	455	1.0	527		215

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

STATEWIDE (Continued)

	Estimated 1979 Employment	Percent of Total 1979 Employment	Projected 1983 Employment	Percent of Total 1983 Employment	Total Job Openings 1979-1983
Central Office Operators	1,244	2.7	1,440		588
Customer Service Representatives	1,352	3.0	1,565		541
All Other Office Clerical Workers	608	1.3	704		244
Meter Readers, Utilities	563	1.2	652		118
Production Clerks &/or Coordinators	208	0.5	241		54
Shipping Packers	75	0.2	87		20
Shipping &/or Receiving Clerks	178	0.4	206		43
Stock Clerks	338	0.7	391		90
Dispatchers, Airplane	24	0.1	28		4
Transportation Agents	351	0.8	406		105
Dispatchers, Vehicle, Service or Work	516	1.1	597		145
Dispatchers, Police, Fire, & Ambulance	32	0.1	37		9
Manifest Clerks	8	0.0	9		1
Rate Clerks, Freight	46	0.1	53		19
All Other Plant Clerical Workers	159	0.3	184		63
TOTAL SALES WORKERS	1,056	2.3	1,228	2.3	305
Sales Agents, Associates &/or Representatives	650	1.4	756		178
Crating & Moving Estimators	56	0.1	65		17
Traffic Agents	210	0.5	244		64
All Other Sales Agents, Associates, &/or Representatives	121	0.3	141		39
Sales Clerks	19	0.0	22		7
TOTAL ALL OCCUPATIONS	45,903	100.0	53,391	100.0	13,149

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

MANAGERS & OFFICERS

All Other Managers
  Captains, Water Vessel

PROFESSIONAL WORKERS

All Other Engineers
  Engineers
  Aeronautical Engineers

All Other Professional Workers
  Systems Analysts, Scientific & Technical

TECHNICAL WORKERS

All Other Engineering Technicians
  Video Recording Engineers

All Other Technical Workers
  Emergency Medical Technicians

MAINTENANCE & PRODUCTION WORKERS

All Other Mechanics & Repairers
  Body Repairers, Automotive
  Marine Mechanics &/or Repairers
  Power Transformer Repairers
  Electronic Mechanics

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

All Other Skilled Craft Workers
  Automatic Maintainers
  Painters, Automotive
  Station Engineers, Main Line
  Street Light Repairers & Servicers
  Telegraph Equipment Maintainers
  Bus Drivers, School

All Other Operatives & Semiskilled Workers
  Craters
  Marine Service Station Attendants
  Pipe Wrapping Machine Operators
  Stationary Boiler Firers
  Pump Station Operators, Waterworks
  Boat Patchers, Plastics
  Chauffeurs
  Motor Boat Operators

CLERICAL WORKERS

All Other Office Clerical Workers
  Claim Adjusters
  Information Clerks
  Procurement Clerks
  Service Clerks
  Script Clerks
  Telegraph Operators

All Other Plant Clerical Workers
  Crew Schedulers
  Weather Clerks

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

APACHE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	62	80	18	8	26
TOTAL PROFESSIONAL WORKERS	33	43	10	0	10
Civil Engineers	1	1	0	0	0
Electrical & Electronic Engineers	2	3	1	0	1
Mechanical Engineers	4	5	1	0	1
All Other Engineers	1	1	0	0	0
Systems Analysts, Electronic Data Processing	1	1	0	0	0
Purchasing Agents &/or Buyers	3	4	1	0	1
Accountants & Auditors	7	9	2	0	2
Personnel & Labor Relations Specialists	4	5	1	0	1
Public Relations Practitioners	1	1	0	0	0
Right-of-Way Agents	1	1	0	0	0
Home Economists	1	1	0	0	0
All Other Professional Workers	7	9	2	0	2
TOTAL TECHNICAL WORKERS	50	65	15	0	15
Computer Programmers	1	1	0	0	0
Drafters	12	16	4	0	4
Electrical & Electronic Technicians	17	22	5	0	5
Estimators & Drafters, Utilities	2	3	1	0	1
All Other Engineering Technicians	9	12	3	0	3
Science Technicians	2	3	1	0	1
Airplane Pilots	7	9	2	0	2
TOTAL SERVICE WORKERS	21	27	6	4	10
Janitors, Porters, & Cleaners	16	21	5	4	9
Guards & Doorkeepers	2	3	1	0	1
Supervisors, Nonworking	3	4	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	597	775	178	43	221
Mechanics, Automotive	17	22	5	0	5
Diesel Mechanics	5	6	1	0	1
Hydroelectric Machinery Mechanics	3	4	1	0	1
Mechanics, Maintenance	38	49	11	4	15
Treatment Plant Mechanics	2	3	1	0	1
All Other Mechanics & Repairers	5	6	1	0	1
Carpenters	2	3	1	0	1
Central Office Repairers	14	18	4	0	4
Control Room Operators, Steam	19	25	6	4	10
Electricians	20	26	6	0	6
Auxiliary Equipment Operators	54	70	16	8	24
Supervisors, Nonworking	69	90	21	5	26
Frame Wirers	1	1	0	0	0
Gas Compressor Operators	21	27	6	4	10
Ground Workers, Utilities	3	4	1	0	1
Heavy Equipment Operators	14	18	4	0	4
Industrial Truck Operators	3	4	1	0	1
Inspectors	1	1	0	0	0
Installers, Repairers, &/or Section Maintainers	3	4	1	0	1
Instrument Repairers	22	29	7	0	7
Line Installers, Repairers	13	17	4	0	4
Line Installers, Repairers, Apprentice	21	27	6	0	6
Machinists	7	9	2	0	2
Maintenance Repairers, General Utilities	6	8	2	0	2
Helpers, Trades	59	77	18	7	25
Oilers	16	21	5	0	5
Painters, Maintenance	1	1	0	0	0
Plumbers &/or Pipefitters	4	5	1	0	1
Plumbers &/or Pipefitters, Apprentice	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

APACHE COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Sewage Plant Operators	6	8	2	0	2
Station Installers	18	23	5	0	5
Station Installers, Apprentice	6	8	2	0	2
Substation Operators	1	1	0	0	0
Substation Operators, Apprentice	1	1	0	0	0
Welders & Flamecutters	13	17	4	0	4
Surveyor Helpers	4	5	1	0	1
All Other Skilled Craft Workers	5	6	1	0	15
All Other Operatives & Semiskilled Workers	36	47	11	4	15
All Other Laborers & Unskilled Workers	63	82	19	7	26
TOTAL CLERICAL WORKERS	236	305	69	51	120
Computer Operators	2	3	1	0	1
Keypunch Operators	7	9	2	3	5
Accounting Clerks	26	34	8	7	15
Cashiers	7	9	2	2	4
Collectors	4	5	1	0	1
File Clerks	3	4	1	0	1
General Clerks, Office	17	22	5	4	9
Personnel Clerks	2	3	1	0	1
Private Branch Advisors	3	4	1	0	1
Secretaries	19	25	6	6	12
Service Observers	5	6	1	0	1
Service Clerks	3	4	1	0	1
Switchboard Operators	1	1	0	0	0
Switchboard Operators/Receptionists	2	3	1	0	1
Typists	11	14	3	4	7
Clerical Supervisors	13	17	4	0	4
Directory Assistance Operators	4	5	1	0	1
Central Office Operators	48	62	14	17	31
Customer Service Representatives	11	14	3	4	7
All Other Office Clerical Workers	3	4	1	0	1
Meter Readers, Utilities	16	20	4	0	4
Shipping &/or Receiving Clerks	6	8	2	0	2
Stock Clerks	19	25	6	4	10
Dispatchers, Vehicle	4	5	1	0	1
TOTAL SALES WORKERS	4	5	1	0	1
TOTAL ALL OCCUPATIONS	1,003	1,300	297	106	403

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

MAINTENANCE & PRODUCTION WORKERS

All Other Skilled Craft Workers
  Cable Splicers

All Other Operatives & Semiskilled Workers
  Truck Drivers, Heavy
  Cable Installers

All Other Laborers & Unskilled Workers
  Refuse Collectors

Clerical Workers

All Other Office Clerical Workers
  Statistical Clerks

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

COCHISE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	91	108	17	12	29
TOTAL PROFESSIONAL WORKERS	86	103	17	4	21
Electrical & Electronic Engineers	23	28	5	0	5
All Other Engineers	1	1	0	0	0
Systems Analysts, Electronic Data Processing	2	2	0	0	0
Purchasing Agents &/or Buyers	9	11	2	0	2
Announcers	23	28	5	0	5
Right-Of-Way Agents	2	2	0	0	0
Travel Agents	7	8	1	0	1
All Other Professional Workers	19	23	4	4	8
TOTAL TECHNICAL WORKERS	90	107	17	4	21
Computer Programmers	2	2	0	0	0
Electrical & Electronic Technicians	55	65	10	4	14
Surveyors	1	1	0	0	0
Estimators & Drafters, Utilities	7	8	1	0	1
All Other Engineering Technicians	7	8	1	0	1
All Other Technical Workers	18	21	3	0	3
TOTAL SERVICE WORKERS	13	15	2	3	5
Janitors, Porters, & Cleaners	12	14	2	3	5
All Other Service Workers	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	593	708	115	24	139
Mechanics, Aircraft	29	35	6	0	6
Mechanics, Automotive	10	12	2	0	2
Electric Meter Installers & Removers	7	8	1	0	1
Hydroelectric Machine Mechanics	4	5	1	0	1
Radio Mechanics	5	6	1	0	1
All Other Mechanics & Repairers	41	49	8	4	12
Truck Drivers	1	1	0	0	0
Truck Drivers, Heavy	52	62	10	4	14
Tractor-Trailer Truck Drivers	74	88	14	4	18
Cable Installers	31	37	6	0	6
Cable Repairers	4	5	1	0	1
Cable Splicers	3	4	1	0	1
Electricians	13	16	3	0	3
Auxiliary Equipment Operators	9	11	2	0	2
Supervisors, Nonworking	28	33	5	4	9
Frame Wirers	2	2	0	0	0
Gas Compresser Operators	9	11	2	0	2
Ground Workers, Utilities	8	10	2	0	2
Heavy Equipment Operators	12	14	2	0	2
Inspectors	1	1	0	0	0
Instrument Repairers	3	4	1	0	1
Line Installers, Repairers	37	44	7	0	7
Line Installers, Repairers, Apprentice	8	10	2	0	2
Maintenance Repairers, General Utility	9	11	2	0	2
Helpers, Trades	16	19	3	0	3
Station Installers	4	5	1	0	1
Switchboard Operators, Generating Plant	28	33	5	0	5
Trouble Locators, Test Desk	1	1	0	0	0
Trouble Shooters, Power Line	5	6	1	0	1
Turbine Operators	10	11	1	0	1
Welders & Flamecutters	8	10	2	0	2
Surveyor Helpers	2	2	0	0	0
Dispatchers, Load	7	8	1	0	1
Truck Driver Helpers	15	18	3	0	3
All Other Skilled Craft Workers	48	57	9	4	13
All Other Operatives & Semiskilled Workers	37	44	7	4	11
All Other Laborers & Unskilled Workers	12	14	2	0	2

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

COCHISE COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL CLERICAL WORKERS	251	298	47	55	102
Computer Operators	7	8	1	0	1
All Other Office Machine Operators	6	7	1	0	1
Stenographers	1	1	0	0	0
Accounting Clerks	12	14	2	4	6
Bookkeepers, Hand	13	15	2	4	6
Cashiers	16	19	3	4	7
General Clerks, Office	44	52	8	12	20
Secretaries	22	26	4	7	11
Statistical Clerks	1	1	0	0	0
Switchboard Operators/Receptionists	2	2	0	0	0
Typists	15	18	3	4	7
Clerical Supervisors	2	2	0	0	0
Directory Assistance Operators	4	5	1	0	1
Central Office Operators	10	12	2	4	6
Customer Service Representatives	27	32	5	8	13
All Other Office Clerical Workers	8	9	1	0	1
Meter Readers, Utilities	12	14	2	0	2
Production Clerks &/or Coordinators	2	2	0	0	0
Stock Clerks	19	23	4	3	7
Dispatchers	8	9	1	0	1
All Other Plant Clerical Workers	20	24	4	5	9
TOTAL SALES WORKERS	19	23	4	4	8
Sales Agents, Associates, &/or Representatives	19	23	4	4	8
TOTAL ALL OCCUPATIONS	1,143	1,362	219	106	325

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Mathematical Scientists
  - Systems Analysts, Scientific & Technical
  - Accountants & Auditors
  - Broadcast News Analysts
  - Writers &/or Editors
  - Personnel & Labor Relations Specialists

TECHNICAL WORKERS

- All Other Engineering Technicians
  - Computer Programmers, Scientific & Technical
  - Drafters

- All Other Technical Workers
  - Radio Operators

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Diesel Mechanics
  - Engineering Equipment Mechanics
  - Mechanics, Maintenance
  - Treatment Plant Mechanics

- All Other Skilled Craft Workers
  - Central Office Repairers
  - Installers, Repairers, &/or Section Maintainers
  - Machinists
  - Sewage Plant Operators
  - Painters, Aircraft

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

- All Other Operatives & Semiskilled Workers
  - Truck Drivers, Light
  - Delivery & Route Workers
  - Water Treatment Plant Operators
  - Line Service Attendants

- All Other Laborers & Unskilled Workers
  - Cleaners, Vehicle
  - Refuse Collectors

CLERICAL WORKERS

- All Other Office Machine Operators
  - Bookkeeping &/or Billing Machine Operators
  - Keypunch Operators

- All Other Office Clerical Workers
  - File Clerks
  - Payroll &/or Timekeeping Clerks
  - Receptionists
  - Traffic Clerks

- All Other Plant Clerical Workers
  - Shipping Packers
  - Shipping &/or Receiving Clerks

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

COCONINO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	105	136	31	13	44
Managers & Officers	97	126	29	13	42
All Other Managers & Officers	8	10	2	0	2
TOTAL PROFESSIONAL WORKERS	79	103	24	1	25
Chemical Engineers	1	1	0	0	0
Electrical & Electronic Engineers	12	16	4	0	4
Industrial Engineers	1	1	0	0	0
Mechanical Engineers	3	4	1	0	1
All Other Engineers	12	16	4	0	4
Natural & Mathematical Scientists	5	7	2	0	2
Purchasing Agents &/or Buyers	2	3	1	0	1
Announcers	32	42	10	1	11
Broadcast News Analysts	5	7	2	0	2
Personnel & Labor Relations Specialists	2	3	1	0	1
Right-Of-Way Agents	1	1	0	0	0
All Other Professional Workers	3	4	1	0	1
TOTAL TECHNICAL WORKERS	61	79	18	0	18
Computer Programmers	1	1	0	0	0
Electric & Electronic Technicians	18	23	5	0	5
Surveyors	1	1	0	0	0
Estimators & Drafters, Utilities	3	4	1	0	1
All Other Engineering Technicians	5	6	1	0	1
Airplane Pilots	25	32	7	0	7
All Other Technical Workers	8	10	2	0	2
TOTAL SERVICE WORKERS	10	13	3	1	4
Janitors, Porters, & Cleaners	10	13	3	1	4
TOTAL MAINTENANCE & PRODUCTION WORKERS	1,097	1,432	335	84	419
Mechanics, Aircraft	7	9	2	0	2
Mechanics, Automotive	21	27	6	0	6
Electric Meter Installers	24	31	7	0	7
Engineering Equipment Mechanics	11	14	3	0	3
Hydroelectric Machinery Mechanics	14	18	4	0	4
Power Transformer Repairers	11	14	3	0	3
Radio Mechanics	8	10	2	0	2
All Other Mechanics & Repairers	145	189	44	12	56
Truck Drivers	12	16	4	0	4
Tractor-Trailer Truck Drivers	31	40	9	0	9
Bus Drivers	78	102	24	10	34
Cable Repairers	3	4	1	0	1
Cable Splicers	10	13	3	0	3
Carpenters	2	3	1	0	1
Control Room Operators, Steam	27	35	8	4	12
Corrosion Control Fitters	12	16	4	0	4
Diesel Plant Operators	4	5	1	0	1
Electricians	38	50	12	4	16
Supervisors, Nonworking	42	55	13	4	17
Frame Wirers	2	3	1	0	1
Gas Pumping Station Operators	22	29	7	4	11
Ground Workers, Utilities	4	5	1	0	1
Heavy Equipment Operators	23	30	7	0	7
Installers.Repairers, &/or Section Maintainers	6	8	2	0	2
Line Installers, Repairers	65	85	20	4	24
Machinists	12	16	4	0	4
Helpers, Trades	60	78	18	7	25
Oilers	16	21	5	0	5

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

COCONINO COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Painters, Maintenance	4	5	1	0	1
Station Installers	6	8	2	0	2
Substation Operators	10	13	3	0	3
Switchboard Operators, Generating Plant	3	4	1	0	1
Trouble Shooters, Test Desk	3	4	1	0	1
Trouble Shooters, Power Line	11	14	3	0	3
Turbine Operators	3	4	1	0	1
Welders & Flamecutters	1	1	0	0	0
Surveyor Helpers	1	1	0	0	0
Dispatchers, Load	7	9	2	0	2
Tree Trimmers	11	14	3	0	3
All Other Skilled Craft Workers	80	104	24	6	30
All Other Operatives & Semiskilled Workers	173	226	53	21	74
All Other Laborers & Unskilled Workers	74	97	23	8	31
TOTAL CLERICAL WORKERS	293	380	87	59	146
Computer Operators	1	1	0	0	0
All Other Office Machine Operators	2	3	1	0	1
Stenographers	1	1	0	0	0
Accounting Clerks	3	4	1	0	1
Bookkeepers, Hand	11	14	3	4	7
Collectors	1	1	0	0	0
General Clerks, Office	51	66	15	13	28
Payroll &/or Timekeeping Clerks	3	4	1	0	1
Personnel Clerks	1	1	0	0	0
Secretaries	17	22	5	4	9
Statistical Clerks	2	3	1	0	1
Ticket Agents	16	21	4	4	8
Directory Assistance Operators	6	8	2	4	6
Customer Service Representatives	33	43	10	8	18
All Other Office Clerical Workers	68	88	20	18	38
Meter Readers, Utilities	19	24	5	0	5
Production Clerks &/or Coordinators	4	5	1	0	1
Shipping &/or Receiving Clerks	8	10	2	0	2
Stock Clerks	15	19	4	0	4
Dispatchers, Vehicle, Service or Work	13	17	4	0	4
All Other Plant Clerical Workers	18	23	5	4	9
TOTAL SALES WORKERS	23	29	6	1	7
Sales Agents, Associates, &/or Representatives	16	20	4	1	5
All Other Sales Workers	7	9	2	0	2
TOTAL ALL OCCUPATIONS	1,668	2,172	504	159	663

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

TECHNICAL WORKERS

All Other Technical Workers
  Broadcast Technicians

MAINTENANCE & PRODUCTION WORKERS

All Other Mechanics & Repairers
  Household Appliance Repairers
  Water Meter Installers

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

All Other Skilled Craft Workers
  Central Office Repairers
  Auxiliary Equipment Operators
  Maintenance Repairers, General Utility
  Taxi Drivers
  Telegraph Plant Maintainers

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

COCONINO COUNTY (Continued)

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

- All Other Operatives & Semiskilled Workers
  - Truck Drivers, Heavy
  - Truck Drivers, Light
  - Cable Installers
  - Crane, Derrick, & Hoist Operators
  - Delivery & Route Workers
  - Auxiliary Equipment Operators
  - Inspectors
  - Pipelayers
  - Line Service Attendants
  - Ambulance Drivers &/or Attendants
  - Motor Boat Operators

SALES WORKERS

- All Other Sales Workers
  - Sales Clerks

CLERICAL WORKERS

- All Other Office Machine Operators
  - Bookkeeper &/or Billing Machine Operators

- All Other Office Clerical Workers
  - Cashiers
  - Order Clerks
  - Receptionists
  - Switchboard Operators
  - Switchboard Operators/Receptionists
  - Traffic Clerks
  - Typists
  - Clerical Supervisors
  - Central Office Operators

- All Other Plant Clerical Workers
  - Dispatchers, Airplane
  - Transportation Agents

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

GILA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	30	34	4	4	8
TOTAL PROFESSIONAL WORKERS	14	16	2	1	3
Electrical & Electronic Engineers	3	3	0	0	0
All Other Professional Workers	11	13	2	1	3
TOTAL TECHNICAL WORKERS	6	7	1	0	1
Estimators & Drafters, Utilities	2	2	0	0	0
All Other Engineering Technicians	4	5	1	0	1
TOTAL MAINTENANCE & PRODUCTION WORKERS	167	191	24	8	32
Mechanics, Automotive	1	1	0	0	0
Diesel Mechanics	5	6	1	0	1
Electric Meter Installers	3	3	0	0	0
Radio Mechanics	5	6	1	0	1
Tractor-Trailer Truck Drivers	60	69	9	4	13
Cable Installers	1	1	0	0	0
Cable Repairers	1	1	0	0	0
Cable Splicers	1	1	0	0	0
Central Office Repairers	3	3	0	0	0
Supervisors, Nonworking	10	11	1	0	1
Frame Wirers	1	1	0	0	0
Heavy Equipment Operators	1	1	1	0	1
Line Installers, Repairers	15	17	2	0	2
Maintenance Repairers, General Utility	14	16	2	0	2
Station Installers	4	5	1	0	1
Trouble Locators, Test Desk	2	2	0	0	0
Trouble Shooters, Power Line	5	6	1	0	1
Tree Trimmers	2	2	0	0	0
All Other Skilled Craft Workers	4	4	0	0	0
All Other Operatives & Semiskilled Workers	27	31	4	4	8
All Other Laborers & Unskilled Workers	2	2	0	0	0
TOTAL CLERICAL WORKERS	82	94	12	12	24
Stenographers	1	1	0	0	0
General Clerks, Office	13	15	2	4	6
Secretaries	4	5	1	0	1
Statistical Clerks	1	1	0	0	0
Typists	2	2	0	0	0
Clerical Supervisors	2	2	0	0	0
Directory Assistance Operators	3	3	0	0	0
Customer Service Representatives	16	18	2	4	6
Central Office Operators	8	9	1	4	5
All Other Office Clerical Workers	8	9	1	0	1
Meter Readers, Utilities	14	16	2	0	2
Production Clerks &/or Coordinators	2	2	0	0	0
Shipping &/or Receiving Clerks	1	1	0	0	0
Stock Clerks	1	1	0	0	0
All Other Plant Clerical Workers	6	7	1	0	1
TOTAL SALES WORKERS	2	2	0	0	0
Sales Agents, Associates, &/or Representatives	2	2	0	0	0
TOTAL ALL OCCUPATIONS	301	344	43	25	68

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

GILA COUNTY (Continued)

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Announcers

TECHNICAL WORKERS

- All Other Engineering Technicians
  - Electrical & Electronic Technician

MAINTENANCE & PRODUCTION WORKERS

- All Other Skilled Craft Workers
  - Bus Drivers

- All Other Operatives & Semiskilled Workers
  - Truck Drivers
  - Welders & Flamecutters
  - Truck Drivers, Light
  - Crane, Derrick, & Hoist Operators
  - Inspectors
  - Pipelayers
  - Taxi Drivers

CLERICAL WORKERS

- All Other Office Clerical Workers
  - Accounting Clerks
  - Bookkeepers, Hand
  - Receptionists
  - Ticket Agents

- All Other Plant Clerical Workers
  - Dispatchers, Vehicle, Service or Work

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

GRAHAM COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	11	13	2	0	2
TOTAL PROFESSIONAL WORKERS	9	11	2	0	2
TOTAL TECHNICAL WORKERS	3	4	1	0	1
Electrical & Electronic Technicians	3	4	1	0	1
TOTAL SERVICE WORKERS	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	55	67	12	4	16
All Other Mechanics & Repairers	2	2	0	0	0
Tractor-Trailer Truck Drivers	6	7	1	0	1
Cable Splicers	1	1	0	0	0
Installers, Repairers, &/or Section Maintainers	2	2	0	0	0
Line Installers, Repairers	2	2	0	0	0
Helpers, Trades	2	2	0	0	0
Trouble Locators, Test Desk	1	1	0	0	0
Welders & Flamecutters	1	1	0	0	0
All Other Skilled Craft Workers	12	15	3	0	3
All Other Operatives & Semiskilled Workers	24	29	5	4	9
All Laborers & Unskilled Workers	2	2	0	0	0
TOTAL CLERICAL WORKERS	34	41	7	3	10
All Other Office Machine Operators	3	4	1	0	1
Bookkeepers, Hand	4	5	1	0	1
General Clerks, Office	5	6	1	0	1
Directory Assistance Operators	1	1	0	0	0
Central Office Operators	2	2	0	0	0
Customer Service Representatives	1	1	0	0	0
All Other Office Clerical Workers	8	10	2	3	5
Meter Readers, Utilities	8	10	2	0	2
All Other Plant Clerical Workers	2	2	0	0	0
TOTAL SALES WORKERS	2	2	0	0	0
TOTAL ALL OCCUPATIONS	115	139	24	7	31

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Accountants & Auditors
  - Announcers
  - Broadcast News Analysts

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Electric Meter Installers
  - Water Meter Installers

- All Other Skilled Craft Workers
  - Electricians
  - Supervisors, Nonworking
  - Maintenance Repairers, General Utility

- All Other Operatives & Semiskilled Workers
  - Truck Drivers
  - Truck Drivers, Heavy
  - Truck Drivers, Light

- All Other Operatives & Semiskilled Workers (Cont'd.)
  - Heavy Equipment Operators
  - Inspectors
  - Truck Driver Helpers
  - Ambulance Drivers &/or Attendants

- All Other Laborers & Unskilled Workers
  - Ground Workers, Utilities

CLERICAL WORKERS

- All Other Office Machine Operators
  - Bookkeeping &/or Billing Machine Operators

- All Other Office Clerical Workers
  - Accounting Clerks
  - Cashiers
  - Collectors
  - Secretaries
  - Typists

- All Other Plant Clerical Workers
  - Stock Clerks

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

GREENLEE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	4	5	1	0	1
TOTAL PROFESSIONAL WORKERS	10	13	3	0	3
TOTAL SERVICE WORKERS	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	20	25	5	0	5
Water Meter Installers	7	9	2	0	2
Installers, Repairers, &/or Section Maintainers	2	2	0	0	0
Line Installers, Repairers	8	10	2	0	2
All Other Semiskilled Workers	1	1	0	0	0
All Other Laborers & Unskilled Workers	2	2	0	0	0
TOTAL CLERICAL WORKERS	17	21	4	0	4
All Other Office Machine Operators	1	1	0	0	0
Accounting Clerks	1	1	0	0	0
General Clerks, Office	3	4	1	0	1
Typists	1	1	0	0	0
Directory Assistance Operators	1	1	0	0	0
Central Office Operators	2	2	0	0	0
All Other Office Clerical Workers	1	1	0	0	0
Meter Readers, Utilities	7	9	2	0	2
TOTAL SALES WORKERS	1	1	0	0	0
TOTAL ALL OCCUPATIONS	53	66	13	0	13

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Accountants & Auditors
  - Announcers

MAINTENANCE & PRODUCTION WORKERS

- All Other Laborers & Unskilled Workers
  - Ground Workers, Utilities

CLERICAL WORKERS

- All Other Office Machine Operators
  - Bookkeeping &/or Billing Machine Operators
- All Other Clerical Workers
  - Bookkeepers, Hand

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

MARICOPA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	2,169	2,532	363	272	635
TOTAL PROFESSIONAL WORKERS	2,422	2,844	422	211	633
Civil Engineers	11	13	2	0	2
Electrical & Electronic Engineers	541	635	94	24	118
Industrial Engineers	15	18	3	0	3
Mechanical Engineers	117	137	20	4	24
Nuclear Engineers	2	2	0	0	0
All Other Engineers	313	368	55	17	72
Mathematical Scientists	4	5	1	0	1
Systems Analysts, Electronic Data Processing	52	61	9	0	9
Teachers, Vocational Education or Training	62	73	11	11	22
Photographers	45	53	8	4	12
Television Camera Operators	46	54	8	8	12
Purchasing Agents &/or Buyers	29	34	5	4	9
Accountants & Auditors	130	153	23	20	43
Announcers	188	221	33	9	42
Broadcast News Analysts	71	83	12	4	16
Commercial Artists	8	9	1	0	1
Writers &/or Editors	37	43	6	8	14
Film Editors	15	17	2	4	6
Lawyers	8	9	1	0	1
Librarians, Professional	8	9	1	0	1
Personnel & Labor Relations Specialists	95	111	16	12	28
Public Relations Practitioners	14	16	2	3	5
Reporters & Correspondents	29	34	5	4	9
Technical Directors	8	9	1	0	1
Travel Agents	432	507	75	54	129
All Other Professional Workers	142	167	25	21	46
TOTAL TECHNICAL WORKERS	1,820	2,138	318	113	431
Computer Programmers	105	123	18	4	22
Drafters	38	45	7	4	11
Electrical & Electronic Technicians	618	726	108	29	137
Sound Recording & Reproduction Technicians	6	7	1	0	1
Broadcast Technicians	80	94	14	4	18
All Other Engineering Technicians	285	335	50	25	75
Airplane Pilots	288	338	50	12	62
All Other Technical Workers	400	470	70	35	105
TOTAL SERVICE WORKERS	566	662	96	111	207
Janitors, Porters, & Cleaners	105	123	18	16	34
Food Service Workers	17	20	3	4	7
Supervisors, Nonworking	62	73	11	4	15
All Other Service Workers	382	447	65	87	152
TOTAL MAINTENANCE & PRODUCTION WORKERS	13,159	15,409	2,250	947	3,197
Mechanics, Aircraft	247	289	42	18	60
Mechanics, Automotive	272	319	47	17	64
Mechanics, Automotive, Apprentice	9	10	1	0	1
Diesel Mechanics	311	364	53	20	73
Diesel Mechanics, Apprentice	9	11	2	0	2
Electric Meter Installers	98	115	17	4	21
Mechanics, Maintenance	15	18	3	0	3
Radio Mechanics	373	437	64	24	88
Water Meter Installers	33	39	6	0	6
All Other Mechanics & Repairers	36	42	6	4	10
Truck Drivers	320	375	55	18	73

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

MARICOPA COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Truck Drivers, Heavy	591	692	101	33	134
Truck Drivers, Light	745	872	127	42	169
Tractor-Trailer Truck Drivers	2,058	2,410	352	114	466
Baggage Handlers	162	190	28	16	44
Bus Drivers	463	542	79	54	133
Cable Installers	238	279	41	7	48
Cable Splicers	172	201	29	4	33
Carpenters	10	12	2	0	2
Cleaners, Vehicle	157	184	27	8	35
Control Room Operators, Steam	45	53	8	7	15
Corrosion Control Fitters	33	39	6	4	10
Crane, Derrick, & Hoist Operators	6	7	1	0	1
Delivery & Route Workers	462	541	79	26	105
Diesel Plant Operators	49	57	8	8	16
Electricians	358	419	61	27	88
Electricians, Apprentice	11	13	2	0	2
Auxiliary Equipment Operators	64	75	11	8	19
Supervisors, Nonworking	977	1,144	167	77	244
Frame Wirers	136	159	23	7	30
Gas Pumping Station Operators	6	7	1	0	1
Ground Workers, Utilities	67	78	11	12	23
Heavy Equipment Operators	157	184	27	11	38
Industrial Truck Operators	162	190	28	8	36
Inspectors	16	19	3	2	5
Line Installers, Repairers	304	356	52	12	64
Machinists	231	270	39	19	58
Maintenance Repairers, General Utility	66	77	11	4	15
Helpers, Trades	117	137	20	12	32
Oilers	7	8	1	0	1
Painters, Maintenance	29	34	5	4	9
Pipelayers	58	68	10	5	15
Plumbers &/or Pipefitters	27	32	5	3	8
Station Installers	303	355	52	13	65
Stationary Engineers	8	9	1	0	1
Substation Operators	28	33	5	0	5
Switchboard Operators, Generating Plant	28	33	5	0	5
Taxi Drivers	207	242	35	25	60
Trouble Locators, Test Desk	77	90	13	4	17
Trouble Shooters, Power Line	66	77	11	4	15
Turbine Operators	51	60	9	8	17
Water Treatment Plant Operators	14	16	2	0	2
Welders & Flamecutters	56	66	10	7	17
Fuel Pump Attendants &/or Lubricators	19	22	3	1	4
Tire Changers	10	12	2	0	2
Dispatchers, Load	32	37	5	4	9
Truck Driver Helpers	300	351	51	29	80
Line Service Attendants	197	231	34	22	56
Ambulance Drivers &/or Attendants	108	126	18	12	30
Tree Trimmers	21	25	4	3	7
All Other Skilled Craft Workers	564	778	114	48	162
All Other Operatives & Semiskilled Workers	418	489	71	46	117
All Other Laborers & Unskilled Workers	845	989	144	82	226
TOTAL CLERICAL WORKERS	8,674	10,094	1,420	1,913	3,333
Bookkeeping &/or Billing Machine Operators	67	78	11	16	27
Computer Operators	75	87	12	8	20
Keypunch Operators	132	154	22	35	57
Peripheral EDP Equipment Operators	39	45	6	11	17
All Other Office Machine Operators	38	44	6	12	18
Stenographers	65	76	11	16	27
Accounting Clerks	419	488	69	96	165

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

MARICOPA COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Bookkeepers, Hand	131	152	21	30	51
Adjustment Clerks	25	29	4	6	10
Cashiers	66	77	11	16	27
Collectors	94	109	15	14	29
File Clerks	79	91	12	24	36
General Clerks, Office	916	1,066	150	224	374
Mail Clerks	71	83	12	12	24
Order Clerks	74	86	12	17	29
Payroll &/or Timekeeping Clerks	58	67	9	12	21
Personnel Clerks	25	29	4	8	12
Private Branch Service Advisors	25	29	4	6	10
Receptionists	86	100	14	27	41
Secretaries	646	752	106	179	285
Service Observers	31	36	5	9	14
Statistical Clerks	173	201	28	42	70
Switchboard Operators	61	71	10	20	30
Switchboard Operators/Receptionists	25	29	4	8	12
Messengers	5	6	1	0	1
Ticket Agents	426	496	70	61	131
Traffic Clerks	41	48	7	10	17
Typists	348	405	57	106	163
Clerical Supervisors	342	398	56	43	99
Directory Assistance Operators	308	358	50	98	148
Central Office Operators	727	846	119	230	349
Customer Service Representatives	854	994	140	208	348
All Other Office Clerical Workers	564	656	92	137	229
Meter Readers, Utilities	364	424	60	19	79
Production Clerks &/or Coordinators	117	136	19	12	31
Shipping Packers	43	50	7	4	11
Shipping &/or Receiving Clerks	132	154	22	12	34
Stock Clerks	208	242	34	23	57
Transportation Agents	268	312	44	39	82
Dispatchers, Vehicle, Service or Work	404	470	66	44	110
Dispatchers, Police, Fire, & Ambulance	5	6	1		1
Manifest Clerks	8	9	1		1
Rate Clerks, Freight	36	42	6	8	14
All Other Plant Clerical Workers	53	62	9	12	21
TOTAL SALES WORKERS	766	895	129	101	230
Sales Agents, Associates, &/or Representatives	428	500	72	48	120
Crating & Moving Estimators	35	41	6	7	13
Traffic Agents	189	221	32	27	59
All Other Sales Agents, Associates, &/or Representatives	109	127	18	19	37
Sales Clerks	5	6	1	0	1
TOTAL ALL OCCUPATIONS	29,576	34,574	4,998	3,668	8,666

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

All Other Engineers
  Engineers
  Aeronautical Engineers
  Chemical Engineers

All Other Professional Workers
  Natural & Mathematical Scientists
  Chemists
  Right-of-Way Agents

TECHNICAL WORKERS

All Other Engineering Technicians
  Surveyors
  Video Recording Engineers
  Light Technicians
  Estimators & Drafters, Utilities

All Other Technical Workers
  Science Technicians
  Flight Engineers
  Radio Operators
  Emergency Medical Technicians

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

MARICOPA COUNTY (Continued)

SERVICE WORKERS

- All Other Service Workers
  - Guards & Doorkeepers
  - Flight Attendants
  - Guides, Travel
  - Baggage Porters

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Body Repairers, Automotive
  - Hydroelectric Machine Mechanics
  - Marine Mechanics &/or Repairers
  - Treatment Plant Mechanics
  - Electronic Mechanics

- All Other Skilled Craft Workers
  - Central Office Repairers
  - Installers, Repairers, &/or Section Maintainers
  - Instrument Repairers
  - Station Engineers, Main Line
  - Telegraph Equipment Maintainers
  - Telegraph Plant Maintainers
  - Painters, Aircraft

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

- All Other Operatives & Semiskilled Workers
  - Cable Repairers
  - Pipe Wrapping Machine Operators
  - Watershed Tenders
  - Pump Station Operators, Waterworks
  - Surveyor Helpers
  - Boat Patchers, Plastics
  - Pipelayers
  - Locker Plant Attendants
  - Chauffeurs

- All Other Laborers & Unskilled Workers
  - Refuse Collectors

CLERICAL WORKERS

- All Other Office Clerical Workers
  - Reservation Agents
  - Claim Adjusters
  - Information Clerks
  - Procurement Clerks
  - Service Clerks
  - Telegraph Operators

- All Other Plant Clerical Workers
  - Dispatchers, Airplane
  - Crew Schedulers
  - Weather Clerks

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

MOHAVE COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	68	75	7	8	15
Managers & Officers	65	72	7	8	15
All Other Managers & Officers	3	3	0	0	0
TOTAL PROFESSIONAL WORKERS	54	60	6	4	10
Civil Engineers	22	24	2	4	6
Electrical & Electronic Engineers	3	3	0	0	0
Industrial Engineers	3	3	0	0	0
Purchasing Agents &/or Buyers	2	2	0	0	0
Announcers	13	14	1	0	1
Personnel & Labor Relations Specialists	1	1	0	0	0
All Other Professional Workers	10	11	1	0	1
TOTAL TECHNICAL WORKERS	43	48	5	0	5
Computer Programmers	4	4	0	0	0
Drafters	8	9	1	0	1
Electrical & Electronic Technicians	12	13	1	0	1
Estimators & Drafters, Utilities	2	2	0	0	0
All Other Engineering Technicians	8	9	1	0	1
All Other Technical Workers	9	10	1	0	1
TOTAL SERVICE WORKERS	12	13	1	4	5
TOTAL MAINTENANCE & PRODUCTION WORKERS	343	380	37	16	53
Electric Meter Installers	3	3	0	0	0
Hydroelectric Machinery Mechanics	1	1	0	0	0
Household Appliance Repairers	3	3	0	0	0
All Other Mechanics & Repairers	10	11	1	0	1
Truck Drivers, Light	34	38	4	0	4
Tractor-Trailer Truck Drivers	31	34	3	0	3
Cable Splicers	11	12	1	0	1
Electricians	1	1	0	0	0
Supervisors, Nonworking	15	17	2	0	2
Gas Compressor Operators	1	1	0	0	0
Ground Workers, Utilities	12	13	1	0	1
Instrument Repairers	1	1	0	0	0
Line Installers, Repairers	33	37	4	0	4
Line Installers, Repairers, Apprentice	8	9	1	0	1
Maintenance Repairers, General Utilities	3	3	0	0	0
Helpers, Trade	3	3	0	0	0
Trouble Shooters, Power Line	1	1	0	0	0
Welders & Flamecutters	1	1	0	0	0
All Other Skilled Craft Workers	73	81	8	4	12
All Other Operatives & Semiskilled Workers	69	76	7	8	15
All Other Laborers & Unskilled Workers	29	32	3	4	7
TOTAL CLERICAL WORKERS	241	265	24	50	74
Computer Operators	4	4	0	0	0
Keypunch Operators	3	3	0	0	0
Peripheral EDP Equipment Operators	1	1	0	0	0
All Other Office Machine Operators	1	1	0	0	0
Bookkeepers, Hand	3	3	0	0	0
Cashiers	14	15	1	4	5
Collectors	3	3	0	0	0
General Clerks, Office	36	40	4	8	12
Payroll &/or Timekeeping Clerks	1	1	0	0	0
Secretaries	21	23	2	6	8
Typists	8	9	1	4	5
Clerical Supervisors	5	5	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

MOHAVE COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Customer Service Representatives	18	20	2	4	6
All Other Office Clerical Workers	70	77	7	16	23
Meter Readers, Utilities	13	14	1	0	1
Stock Clerks	7	8	1	0	1
All Other Plant Clerical Workers	33	36	3	8	11
TOTAL SALES WORKERS	11	12	1	0	1
Sales Agents, Associates, &/or Representatives	8	9	1	0	1
All Other Sales Workers	3	3	0	0	0
TOTAL ALL OCCUPATIONS	772	853	81	82	163

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

MANAGERS & OFFICERS

- All Other Managers & Officers
  - Captains, Water Vessel

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Accountants & Auditors
  - Broadcast News Analysts
  - Travel Agents

TECHNICAL WORKERS

- All Other Technical Workers
  - Airplane Pilots
  - Radio Operators

SERVICE WORKERS

- All Other Service Workers
  - Janitors, Porters, & Cleaners
  - Guards & Doorkeepers

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Mechanics, Aircraft
  - Mechanics, Automotive
  - Treatment Plant Mechanics

- All Other Skilled Craft Workers
  - Central Office Repairers
  - Plumbers &/or Pipefitters
  - Water Treatment Plant Operators

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

- All Other Operatives & Semiskilled Workers
  - Truck Drivers, Heavy
  - Marine Service Station Attendants
  - Pipelayers
  - Line Service Attendants
  - Ambulance Drivers &/or Attendants

- All Other Laborers & Unskilled Workers
  - Refuse Collectors

CLERICAL WORKERS

- All Other Office Clerical Workers
  - Accounting Clerks
  - Reservation Agents
  - Adjustment Clerks
  - Switchboard Operators

- All Other Plant Clerical Workers
  - Shipping Packers
  - Rate Clerks, Freight

SALES WORKERS

- All Other Sales Workers
  - Crating & Moving Estimators

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

NAVAJO COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	62	68	6	8	14
TOTAL PROFESSIONAL WORKERS	31	34	3	0	3
Electrical & Electronic Engineers	4	4	0	0	0
Mechanical Engineers	1	1	0	0	0
All Other Engineers	3	3	0	0	0
Purchasing Agents &/or Buyers	1	1	0	0	0
Announcers	13	14	1	0	1
Personnel & Labor Relations Specialists	2	2	0	0	0
Right-of-Way Agents	1	1	0	0	0
All Other Professional Workers	6	7	1	0	1
TOTAL TECHNICAL WORKERS	32	35	3	0	3
Drafters	1	1	0	0	0
Surveyors	2	2	0	0	0
Estimators & Drafters, Utilities	3	3	0	0	0
All Other Engineering Technicians	15	16	1	0	1
Airplane Pilots	10	11	1	0	1
All Other Technical Workers	1	1	0	0	0
TOTAL SERVICE WORKERS	2	2	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	505	554	49	24	73
Mechanics, Automotive	7	8	1	0	1
Mechanics, Automotive, Apprentice	1	1	0	0	0
Electric Meter Installers	1	1	0	0	0
Hydroelectric Machinery Mechanics	1	1	0	0	0
Mechanics, Maintenance	4	4	0	0	0
Household Appliance Repairers	3	3	0	0	0
All Other Mechanics & Repairers	4	4	0	0	0
Truck Drivers	8	9	1	0	1
Control Room Operators, Steam	10	11	1	0	1
Corrosion Control Fitters	1	1	0	0	0
Crane, Derrick, & Hoist Operators	1	1	0	0	0
Electricians	21	23	2	0	2
Electricians, Apprentice	6	7	1	0	1
Auxiliary Equipment Operators	28	31	3	4	7
Supervisors, Nonworking	41	45	4	4	8
Gas Compressor Operators	1	1	0	0	0
Ground Workers, Utilities	6	7	1	0	1
Heavy Equipment Operators	11	12	1	0	1
Inspectors	4	4	0	0	0
Instrument Repairers	8	9	1	0	1
Instrument Repairers, Apprentice	6	7	1	0	1
Line Installers, Repairers	40	44	4	0	4
Line Installers, Repairers, Apprentice	4	4	0	0	0
Machinists	8	9	1	0	1
Machinists, Apprentice	7	8	1	0	1
Maintenance Repairers, General Utility	18	20	2	0	2
Oilers	1	1	0	0	0
Painters, Maintenance	1	1	0	0	0
Plumbers &/or Pipefitters	2	2	0	0	0
Station Engineers, Main Line	7	8	1	0	1
Station Installers	42	46	4	0	4
Trouble Shooters, Power Line	8	9	1	0	1
Welders & Flamecutters	11	12	1	0	1
Surveyor Helpers	1	1	0	0	0
Pipelayers	5	5	0	0	0
Tree Trimmers	2	2	0	0	0
All Other Skilled Craft Workers	56	61	5	4	9

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

NAVAJO COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
All Other Operatives & Semiskilled Workers	83	91	8	8	16
All Other Laborers & Unskilled Workers	36	39	3	4	7
TOTAL CLERICAL WORKERS	275	299	24	58	82
Keypunch Operators	1	1	0	0	0
All Other Office Machine Operators	1	1	0	0	0
Accounting Clerks	1	1	0	0	0
Cashiers	4	4	0	0	0
Collectors	1	1	0	0	0
File Clerks	1	1	0	0	0
General Clerks, Office	33	36	3	8	11
Secretaries	25	27	2	8	10
Statistical Clerks	5	5	0	0	0
Switchboard Operators/Receptionists	1	1	0	0	0
Typists	4	4	0	0	0
Clerical Supervisors	2	2	0	0	0
Directory Assistance Operators	1	1	0	0	0
Central Office Operators	71	77	6	22	28
Customer Service Representatives	71	77	6	16	22
All Other Office Clerical Workers	9	10	1	0	1
Meter Readers, Utilities	13	14	1	0	1
Shipping &/or Receiving Clerks	2	2	0	0	0
Stock Clerks	8	9	1	0	1
Dispatchers, Vehicle, Service or Work	1	1	0	0	0
All Other Plant Clerical Workers	20	22	2	4	6
TOTAL SALES WORKERS	2	2	0	0	0
TOTAL ALL OCCUPATIONS	909	994	85	90	175

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Accountants & Auditors
  - Librarians, Professional

TECHNICAL WORKERS

- All Other Engineering Technicians
  - Electrical & Electronic Technicians
  - Broadcast Technicians

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Mechanics, Aircraft
  - Diesel Mechanics

- All Other Skilled Craft Workers
  - Bus Drivers
  - Central Office Repairers
  - Installers, Repairers, &/or Section Maintainers

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

- All Other Operatives & Semiskilled Workers
  - Truck Drivers, Heavy
  - Truck Drivers, Light
  - Tractor-Trailer Truck Drivers
  - Cable Installers
  - Cable Repairers
  - Delivery & Route Workers
  - Industrial Truck Operators

- All Other Laborers & Unskilled Workers
  - Cleaners, Vehicle
  - Helpers, Trades
  - Ambulance Drivers &/or Attendants

Clerical Workers

- All Other Office Clerical Workers
  - Bookkeepers, Hand
  - Traffic Clerks

- All Other Plant Clerical Workers
  - Shipping Packers

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

PIMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	562	647	85	70	155
TOTAL PROFESSIONAL WORKERS	820	950	130	74	204
Electrical & Electronic Engineers	176	204	28	8	36
All Other Engineers	55	64	9	4	13
Systems Analysts, Electronic Data Processing	16	18	2	0	2
Teachers, Vocational Education & Training	13	15	2	4	6
Photographers	18	21	3	0	3
Television Camera Operators	30	35	5	4	9
Purchasing Agents &/or Buyers	15	17	2	0	2
Accountants & Auditors	66	76	10	9	19
Announcers	111	128	17	4	21
Broadcast News Analysts	42	48	6	4	10
Commercial Artists	5	6	1	0	1
Writers &/or Editors	21	24	3	4	7
Film Editors	18	21	3	4	7
Librarians, Professional	5	6	1	0	1
Personnel & Labor Relations Specialists	25	29	4	4	8
Public Relations Practitioners	5	6	1	0	1
Reporters & Correspondents	29	33	4	4	8
Travel Agents &/or Travel Accommodations Appraisers	139	161	22	17	39
All Other Professional Workers	31	36	5	4	9
TOTAL TECHNICAL WORKERS	307	356	49	16	65
Drafters	33	38	5	4	9
Electrical & Electronic Technicians	93	108	15	4	19
Broadcast Technicians	37	43	6	0	6
All Other Engineering Technicians	84	97	13	8	21
Airplane Pilots	45	52	7	0	7
All Other Technical Workers	15	17	2	0	2
TOTAL SERVICE WORKERS	82	95	13	16	29
Janitors, Porters, & Cleaners	46	53	7	8	15
All Other Service Workers	36	42	6	8	14
TOTAL MAINTENANCE & PRODUCTION WORKERS	3,310	3,827	517	243	760
Mechanics, Aircraft	103	119	16	4	20
Mechanics, Automotive	41	47	6	4	10
Diesel Mechanics	24	28	4	0	4
Radio Mechanics	133	154	21	8	29
All Other Mechanics & Repairers	78	90	12	4	16
Truck Drivers	35	40	5	0	5
Truck Drivers, Heavy	212	245	33	12	45
Truck Drivers, Light	123	142	19	8	27
Tractor-Trailer Truck Drivers	201	232	31	12	43
Bus Drivers	128	148	20	15	35
Cable Installers	34	39	5	0	5
Cable Repairers	30	34	4	0	4
Delivery & Route Workers	53	61	8	4	12
Electricians	37	43	6	4	10
Supervisors, Nonworking	298	344	46	24	70
Frame Wirers	37	43	6	0	6
Heavy Equipment Operators	44	51	7	4	11
Industrial Truck Operators	18	21	3	0	3
Inspectors	10	11	1	0	1
Installers, Repairers, &/or Section Maintainers	23	26	3	0	3

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

PIMA COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Line Installers, Repairers	76	88	12	4	16
Line Installers, Repairers, Apprentice	11	13	2	0	2
Maintenance Repairers, General Utility	16	18	2	0	2
Helpers, Trades	77	89	12	8	20
Station Installers	111	128	17	4	21
Trouble Locators, Test Desk	30	34	4	0	4
Fuel Pump Attendants &/or Lubricators	8	9	1	0	1
Truck Driver Helpers	121	140	19	12	31
Line Service Attendants	96	111	15	11	26
All Other Skilled Craft Workers	410	474	64	29	93
All Other Operatives Semiskilled Workers	479	554	75	52	127
All Other Laborers & Unskilled Workers	213	246	33	20	53
TOTAL CLERICAL WORKERS	2,287	2,628	341	502	843
Bookkeeping &/or Billing Machine Operators	29	33	4	8	12
Computer Operators	12	14	2	0	2
Keypunch Operators	22	25	3	5	8
All Other Office Machine Operators	8	9	1	4	5
Stenographers	49	56	7	12	19
Accounting Clerks	74	85	11	16	27
Bookkeepers, Hand	39	45	6	8	14
Adjustment Clerks	6	7	1	0	1
Cashiers	23	26	3	4	7
File Clerks	41	47	6	12	18
General Clerks, Office	321	369	48	77	125
Payroll &/or Timekeeping Clerks	10	11	1	0	1
Personnel Clerks	4	4	0	0	0
Receptionists	25	29	4	8	12
Secretaries	87	100	13	24	37
Switchboard Operators	17	19	2	5	7
Switchboard Operators/Receptionists	6	7	1	0	1
Ticket Agents	150	172	22	21	43
Traffic Clerks	22	25	3	4	7
Typists	83	95	12	25	37
Clerical Supervisors	111	127	16	13	29
Directory Assistance Operators	102	117	15	32	47
Central Office Operators	291	334	43	91	134
Customer Service Representatives	202	232	30	49	79
All Other Office Clerical Workers	146	168	22	35	57
Meter Readers, Utilities	53	61	8	4	12
Production Clerks &/or Coordinators	66	76	10	8	18
Shipping Packers	10	11	1	0	1
Shipping &/or Receiving Clerks	8	9	1	0	1
Stock Clerks	49	56	7	4	11
Dispatchers, Airplane	18	20	2	0	2
Transportation Agents	78	89	11	12	23
Dispatchers, Vehicle, Service or Work	56	64	8	6	14
Rate Clerks, Freight	9	10	1	0	1
All Other Plant Clerical Workers	60	69	9	15	24
TOTAL SALES WORKERS	170	196	26	22	48
Sales Agents, Associates, &/or Representatives	126	145	19	14	33
Crating & Moving Estimators	16	18	2	4	6
Traffic Agents	17	19	2	4	6
All Other Sales Agents, Associates, &/or Representatives	8	9	1	0	1
All Other Sales Workers	3	3	0	0	0
TOTAL ALL OCCUPATIONS	7,538	8,699	1,161	943	2,104

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

PIMA COUNTY (Continued)

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Engineers
  - Aeronautical Engineers
  - Chemical Engineers
  - Civil Engineers
  - Industrial Engineers
  - Mechanical Engineers

- All Other Professional Workers
  - Natural & Mathematical Scientists
  - Mathematical Scientists
  - Systems Analysts, Scientific & Technical
  - Lawyers
  - Right-of-Way Agents
  - Technical Directors

TECHNICAL WORKERS

- All Other Engineering Technicians
  - Computer Programmers
  - Computer Programmers, Scientific & Technical
  - Surveyors
  - Estimators & Drafters, Utilities
  - Light Technicians

- All Other Technical Workers
  - Flight Engineers
  - Radio Operators

SERVICE WORKERS

- All Other Service Workers
  - Guards & Doorkeepers
  - Flight Attendants
  - Supervisors, Nonworking
  - Guides, Travel

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Electric Meter Installers
  - Engineering Equipment Mechanics
  - Hydroelectric Machinery Mechanics
  - Power Transformer Repairers
  - Mechanics, Maintenance
  - Water Meter Installers

- All Other Skilled Craft Workers
  - Automatic Maintainers
  - Cable Splicers
  - Carpenters
  - Central Office Repairers
  - Corrosion Control Fitters
  - Auxiliary Equipment Operators
  - Gas Pumping Station Operators
  - Instrument Repairers
  - Machinists
  - Painters, Automotive
  - Plumbers &/or Pipefitters
  - Sewage Plant Operators

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

  - Stationary Engineers
  - Street Light Repairers & Servicers
  - Substation Operators
  - Switchboard Operators, Generating Plant
  - Telegraph Plant Maintainers
  - Trouble Shooters, Power Lines
  - Turbine Operators
  - Bus Drivers, School

- All Other Operatives & Semiskilled Workers
  - Crane, Derrick, Hoist Operators
  - Craters
  - Pipelayers
  - Stationary Boiler Firers
  - Taxi Drivers
  - Welders & Flamecutters
  - Tire Changers
  - Surveyor Helpers
  - Ambulance Drivers &/or Attendants

- All Other Laborers & Unskilled Workers
  - Baggage Handlers
  - Cleaners, Vehicle
  - Ground Workers, Utilities
  - Oilers
  - Painters, Maintenance
  - Refuse Collectors

CLERICAL WORKERS

- All Other Office Machine Operators
  - Peripheral EDP Equipment Operators

- All Other Clerical Workers
  - Reservation Agents
  - Collectors
  - Mail Clerks
  - Order Clerks
  - Private Branch Service Advisors
  - Service Observers
  - Statistical Clerks
  - Script Clerks

- All Other Plant Clerical Workers
  - Crew Schedulers
  - Dispatchers, Police, Fire, & Ambulance

SALES WORKERS

- All Other Sales Workers
  - Sales Clerks

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

PINAL COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	50	57	7	7	0
TOTAL PROFESSIONAL WORKERS	37	42	5	4	9
Electrical & Electronic Engineers	5	6	1	0	1
Mechanical Engineers	5	6	1	0	1
Purchasing Agents &/or Buyers	3	3	0	0	0
Personnel & Labor Relations Specialists	1	1	0	0	0
All Other Professional Workers	23	27	4	4	8
TOTAL TECHNICAL WORKERS	30	34	4	0	4
Drafters	3	3	0	0	0
Estimators & Drafters, Utilities	3	3	0	0	0
Surveyors	1	1	0	0	0
All Other Engineering Technicians	1	1	0	0	0
Flight Engineers	1	1	0	0	0
Airplane Pilots	4	5	1	0	1
All Other Technical Workers	17	19	2	0	2
TOTAL SERVICE WORKERS	23	26	3	0	3
Janitors, Porters, & Cleaners	10	11	1	0	1
Guards & Doorkeepers	4	5	1	0	1
Food Service Workers	8	9	1	0	1
Supervisors, Nonworking	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	418	480	62	17	79
Mechanics, Aircraft	45	52	7	1	8
Mechanics, Aircraft, Apprentice	4	5	1	0	1
Mechanics, Automotive	1	13	2	0	2
Diesel Mechanics	6	7	1	0	1
Electric Meter Installers	4	5	1	0	1
Hydroelectric Machinery Mechanics	2	2		0	
Radio Mechanics	15	17	2	0	2
Refrigeration Mechanics, Air Conditioning	1	1	0	0	0
Refrigeration Mechanics, Air Conditioning, Apprentice	1	1	0	0	0
Electronic Mechanics	9	10	1	0	1
Electronic Mechanics, Apprentice	2	2	0	0	0
Truck Drivers, Heavy	5	6	1	0	1
Truck Drivers, Light	1	1	0	0	0
Tractor-Trailer Truck Drivers	20	23	3	0	3
Cable Installers	2	2	0	0	0
Cable Repairers	3	3	0	0	0
Cable Splicers	1	1	0	0	0
Carpenters	2	2	0	0	0
Carpenters, Apprentice	1	1	0	0	0
Central Office Repairers	3	3	0	0	0
Supervisors, Nonworking	14	16	2	0	2
Frame Wirers	1	1	0	0	0
Gas Compressor Operators	3	3	0	0	0
Ground Workers, Utilities	1	1	0	0	0
Industrial Truck Operators	12	14	2	0	2
Instrument Repairers	3	3	0	0	0
Line Installers, Repairers	15	17	2	0	2
Machinists	1	1	0	0	0
Helpers, Trades	1	1	0	0	0
Plumbers &/or Pipefitters	1	1	0	0	0
Station Installers	4	5	1	0	1
Stationary Engineers	3	3	0	0	0
Trouble Locators, Test Desk	2	2	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

PINAL COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
Trouble Shooters, Power Line	21	24	3	0	3
Welders & Flamecutters	8	9	1	0	1
Dispatchers, Load	1	1	0	0	0
Painters, Aircraft	6	7	1	0	1
Painters, Aircraft, Apprentice	2	2	0	0	0
All Other Skilled Craft Workers	68	78	10	4	14
All Other Operatives & Semiskilled Workers	86	99	13	8	21
All Other Laborers & Unskilled Workers	27	31	4	4	8
TOTAL CLERICAL WORKERS .	162	185	23	28	51
All Other Office Machine Operators	1	1	0	0	0
Stenographers	1	1	0	0	0
Accounting Clerks	3	3	0	0	0
General Clerks, Office	33	38	5	8	13
Personnel Clerks	1	1	0	0	0
Secretaries	9	10	1	4	5
Statistical Clerks	1	1	0	0	0
Typists	6	7	1	0	1
Clerical Supervisors	2	2	0	0	0
Directory Assistance Operators	3	3	0	0	0
Customer Service Representatives	46	52	6	12	18
All Other Office Clerical Workers	18	20	2	4	6
Meter Readers, Utilities	15	17	2	0	2
Shipping Packers	3	3	0	0	0
Shipping &/or Receiving Clerks	8	9	1	0	1
Stock Clerks	3	3	0	0	0
Dispatchers, Vehicle, Service or Work	4	5	1	0	1
All Other Plant Clerical Workers	5	6	1	0	1
TOTAL SALES WORKERS	5	6	1	0	1
Sales Agents, Associates, &/or Representatives	5	6	1	0	1
TOTAL ALL OCCUPATIONS	725	830	105	56	147

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Accountants & Auditors
  - Announcers
  - Broadcast News Analysts
  - Travel Agents &/or Travel Accomodations Appraisers

TECHNICAL WORKERS

- All Other Engineering Technicians
  - Electrical & Electronic Technicians

MAINTENANCE & PRODUCTION WORKERS

- All Other Skilled Craft Workers
  - Installers, Repairers, &/or Section Maintainers
  - Maintenance Repairers, General Utility
  - Sewage Plant Operators
  - Telegraph Plant Maintainers

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

- All Other Operatives & Semiskilled Workers
  - Truck Drivers
  - Delivery & Route Workers
  - Ambulance Drivers &/or Attendants

- All Other Laborers & Unskilled Workers
  - Refuse Collectors

CLERICAL WORKERS

- All Other Office Clerical Workers
  - Bookkeepers, Hand
  - Central Office Operators

- All Other Plant Clerical Workers
  - Production Clerks &/or Coordinators

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

SANTA CRUZ COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	47	54	7	6	13
TOTAL PROFESSIONAL WORKERS	38	44	6	4	10
Purchasing Agents &/or Buyers	1	1	0	0	0
Accountants & Auditors	5	6	1	0	1
Travel Agents &/or Travel Accomodations Appraisers	13	15	2	0	2
All Other Professional Workers	19	22	3	4	7
TOTAL SERVICE WORKERS	3	3	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	260	299	39	14	53
Diesel Mechanics	14	16	2	0	2
Electric Meter Installers	2	2	0	0	0
Radio Mechanics	1	1	0	0	0
All Other Mechanics & Repairers	1	1	0	0	0
Tractor-Trailer Truck Drivers	19	22	3	0	3
Cable Splicers	2	2	0	0	0
Central Office Repairers	3	3	0	0	0
Cleaners, Vehicle	6	7	1	0	1
Delivery & Route Workers	6	7	1	0	1
Supervisors, Nonworking	11	12	1	0	1
Frame Wirers	1	1	0	0	0
Gas Pumping Station Operators	4	5	1	0	1
Installers, Repairers, &/or Section Maintainers	4	5	1	0	1
Line Installers, Repairers	8	9	1	0	1
Helpers, Trades	2	2	0	0	0
Pipelayers	6	7	1	0	1
Sewage Plant Operators	1	1	0	0	0
Station Installers	2	2	0	0	0
Pump Station Operators, Waterworks	1	1	0	0	0
All Other Skilled Craft Workers	26	30	4	0	4
All Other Operatives & Semiskilled Workers	35	40	5	4	9
All Other Laborers & Unskilled Workers	105	121	16	10	26
TOTAL CLERICAL WORKERS	160	183	23	32	55
Computer Operators	1	1	0	0	0
Keypunch Operators	2	2	0	0	0
All Other Office Machine Operators	5	6	1	0	1
File Clerks	1	1	0	0	0
General Clerks, Office	39	44	5	8	13
Payroll &/or Timekeeping Clerks	1	1	0	0	0
Secretaries	8	9	1	4	5
Typists	30	34	4	8	12
Directory Assistance Operators	3	3	0	0	0
Central Office Operators	4	5	1	0	1
Customer Service Representatives	2	2	0	0	0
All Other Office Clerical Workers	53	60	7	12	19
Meter Readers, Utilities	3	3	0	0	0
Dispatchers, Vehicle, Service or Work	5	6	1	0	1
All Other Plant Clerical Workers	3	3	0	0	0
TOTAL SALES WORKERS	6	7	1	0	1
Sales Agents, Associates, &/or Representatives	2	2	0	0	0
All Other Sales Workers	4	5	1	0	1
TOTAL ALL OCCUPATIONS	514	590	76	56	132

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

SANTA CRUZ COUNTY (Continued)

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Professional Workers
  - Electrical & Electronic Engineers
  - Announcers

SERVICE WORKERS

- All Other Service Workers
  - Janitors, Porters, & Cleaners
  - Guards & Doorkeepers

MAINTENANCE & PRODUCTION WORKERS

- All Other Skilled Craft Workers
  - Stationary Engineers

- All Other Operatives & Semiskilled Workers
  - Truck Drivers, Heavy
  - Truck Drivers, Light
  - Cable Installers
  - Taxi Drivers
  - Locker Plant Attendants

CLERICAL WORKERS

- All Other Office Machine Operators
  - Bookkeeping &/or Billing Machine Operators

- All Other Clerical Workers
  - Accounting Clerks
  - Bookkeepers, Hand
  - Cashiers
  - Messengers
  - Clerical Supervisors

- All Other Plant Clerical Workers
  - Shipping &/or Receiving Clerks
  - Stock Clerks

SALES WORKERS

- All Other Sales Workers
  - Traffic Agents

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

YAVAPAI COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	62	68	6	8	14
TOTAL PROFESSIONAL WORKERS	32	36	4	0	4
Electrical & Electronic Engineers	9	10	1	0	1
All Other Engineers	1	1	0	0	0
Announcers	11	12	1	0	1
Right-of-Way Agents	1	1	0	0	0
Travel Agents &/or Travel Accomodations Appraisers	8	9	1	0	1
All Other Professional Workers	2	2	0	0	0
TOTAL TECHNICAL WORKERS	22	24	2	0	2
Surveyors	1	1	0	0	0
Estimators & Drafters, Utilities	6	7	1	0	1
All Other Engineering Technicians	10	11	1	0	1
All Other Technical Workers	5	5	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	401	444	43	19	62
Mechanics, Automotive	10	11	1	0	1
Diesel Mechanics	3	3	0	0	0
Hydroelectric Machinery Mechanics	9	10	1	0	1
Radio Mechanics	12	13	1	0	1
Household Appliance Repairers	8	9	1	0	1
All Other Mechanics & Repairers	14	16	2	0	2
Truck Drivers, Heavy	97	107	10	4	14
Tractor-Trailer Truck Drivers	34	38	4	0	4
Cable Splicers	4	4	0	0	0
Crane, Derrick, & Hoist Operators	3	3	0	0	0
Supervisors, Nonworking	23	25	2	0	2
Frame Wirers	3	3	0	0	0
Gas Compressor Operators	1	1	0	0	0
Ground Workers, Utilities	1	1	0	0	0
Installers, Repairers, &/or Section Maintainers	6	7	1	0	1
Maintenance Repairers, General Utility	10	11	1	0	1
Station Installers	11	12	1	0	1
Trouble Locators, Test Desk	4	4	0	0	0
Surveyor Helpers	1	1	0	0	0
Dispatchers, Load	1	1	0	0	0
Truck Driver Helpers	12	13	1	0	1
Tree Trimmers	3	3	0	0	0
All Other Skilled Craft Workers	51	56	5	4	9
All Other Operatives & Semiskilled Workers	58	64	6	7	13
All Other Laborers & Unskilled Workers	22	24	2	4	6
TOTAL CLERICAL WORKERS	195	215	20	40	60
All Office Machine Operators	1	1	0	0	0
Accounting Clerks	9	10	1	0	1
Bookkeepers, Hand	6	7	1	0	1
General Clerks, Office	30	33	3	8	11
Secretaries	9	10	1	4	5
Statistical Clerks	5	6	1	0	1
Typists	8	9	1	4	5
Clerical Supervisors	6	7	1	0	1
Directory Assistance Operators	10	11	1	4	5
Central Office Operators	25	28	3	8	11
Customer Service Representatives	36	40	4	8	12

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

YAVAPAI COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
All Other Office Clerical Workers	15	17	2	4	6
Meter Readers, Utilities	17	19	2	0	2
Production Clerks &/or Coordinators	5	6	1	0	1
Shipping &/or Receiving Clerks	2	2	0	0	0
Stock Clerks	1	1	0	0	0
Dispatchers, Vehicle, Service or Work	8	9	1	0	1
All Other Plant Clerical Workers	2	2	0	0	0
TOTAL SALES WORKERS	21	23	2	4	6
Sales Agents, Associates &/or Representatives	19	21	2	4	6
All Other Sales Agents, Associates, &/or Representatives	2	2	0	0	0
TOTAL ALL OCCUPATIONS	733	810	77	71	148

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

All Other Professional Workers
- Accountants & Auditors
- Broadcast News Analysts

TECHNICAL WORKERS

All Other Engineering Technicians
- Electrical & Electronic Technicians

All Other Technical Workers
- Airplane Pilots
- Emergency Medical Technicians

MAINTENANCE & PRODUCTION WORKERS

All Other Mechanics & Repairers
- Mechanics, Aircraft
- Electric Meter Installers

All Other Skilled Craft Workers
- Bus Drivers
- Central Office Repairers
- Line Installers, Repairers
- Machinists
- Trouble Shooters, Power Lines

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

All Other Operatives & Semiskilled Workers
- Truck Drivers
- Truck Drivers, Light
- Cable Installers
- Cable Repairers
- Delivery & Route Workers
- Heavy Equipment Operators
- Pipelayers
- Taxi Drivers
- Water Treatment Plant Operators

All Other Laborers & Unskilled Workers
- Cleaners, Vehicle
- Ground Workers, Utilities
- Helpers, Trades
- Refuse Collectors

CLERICAL WORKERS

All Other Clerical Workers
- Cashiers
- Payroll &/or Timekeeping Clerks
- Receptionists

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

YUMA COUNTY

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL MANAGERS & OFFICERS	88	103	15	12	27
Managers & Officers	87	102	15	12	27
All Other Managers & Officers	1	1	0	0	0
TOTAL PROFESSIONAL WORKERS	68	80	12	4	16
Electrical & Electronic Engineers	11	13	2	0	2
All Other Engineers	2	2	0	0	0
Announcers	21	25	4	0	4
All Other Professional Workers	34	40	6	4	10
TOTAL TECHNICAL WORKERS	24	28	4	0	4
Electrical & Electronic Technicians	11	13	2	0	2
Surveyors	1	1	0	0	0
Estimators & Drafters, Utilities	3	3	0	0	0
All Other Engineering Technicians	9	10	1	0	1
TOTAL SERVICE WORKERS	11	13	2	0	2
Janitors, Porters, & Cleaners	9	10	1	0	1
All Other Service Workers	2	2	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	404	476	72	20	92
Mechanics, Aircraft	10	12	2	0	2
Mechanics, Automotive	8	9	1	0	1
Electric Meter Installers	5	6	1	0	1
Hydroelectric Machinery Mechanics	1	1	0	0	0
Mechanics, Maintenance	1	1	0	0	0
Radio Mechanics	12	14	2	0	2
All Other Mechanics & Repairers	4	5	1	0	1
Truck Drivers	28	33	5	0	5
Truck Drivers, Heavy	11	13	2	0	2
Tractor-Trailer Truck Drivers	21	25	4	0	4
Cable Installers	19	22	3	0	3
Cable Repairers	6	7	1	0	1
Cable Repairers, Apprentice	1	1	0	0	0
Cable Splicers	5	6	1	0	1
Control Room Operators, Steam	5	6	1	0	1
Electricians	2	2	0	0	0
Auxiliary Equipment Operators	5	6	1	0	1
Supervisors, Nonworking	33	39	6	4	10
Frame Wirers	3	3	0	0	0
Gas Compressor Operators	1	1	0	0	0
Heavy Equipment Operators	2	2	0	0	0
Installers, Repairers, &/or Section Maintainers	16	19	3	0	3
Installers, Repairers, &/or Section Maintainers, Apprentice	1	1	0	0	0
Instrument Repairers	2	2	0	0	0
Line Installers, Repairers	17	20	3	0	3
Helpers, Trades	8	9	1	0	1
Station Installers	14	16	2	0	2
Stationary Engineers	1	1	0	0	0
Trouble Locators, Test Desk	5	6	1	0	1
Welders & Flamecutters	3	3	0	0	0
Line Service Attendants	5	6	1	0	1
All Other Skilled Craft Workers	37	44	7	4	11
All Other Operatives & Semiskilled Workers	99	117	18	12	30
All Other Laborers & Unskilled Workers	13	15	2	0	2

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

YUMA COUNTY (Continued)

	Estimated 1979 Employment	Projected 1983 Employment	Job Openings Due to Growth 1979-1983	Job Openings Due to Separations 1979-1983	Total Job Openings 1979-1983
TOTAL CLERICAL WORKERS	234	274	40	39	79
Bookkeeping &/or Billing Machine Operators	6	7	1	0	1
All Other Office Machine Operators	1	1	0	0	0
Stenographers	2	2	0	0	0
Bookkeepers, Hand	8	9	1	0	1
Collectors	2	2	0	0	0
General Clerks, Office	43	50	7	11	18
Secretaries	11	13	2	4	6
Statistical Clerks	4	4	1	0	1
Traffic Clerks	4	4	1	0	1
Typists	7	8	1	0	1
Clerical Supervisors	8	9	1	0	1
Directory Assistance Operators	9	10	1	4	5
Central Office Operators	23	27	4	8	12
Customer Service Representatives	35	41	6	8	14
All Other Office Clerical Workers	23	27	4	4	8
Meter Readers, Utilities	9	10	1	0	1
Production Clerks &/or Coordinators	10	12	2	0	2
Shipping &/or Receiving Clerks	7	8	1	0	1
Stock Clerks	5	6	1	0	1
Dispatchers, Vehicle, Service or Work	11	13	2	0	2
All Other Plant Clerical Workers	6	7	1	0	1
TOTAL SALES WORKERS	24	28	4	4	8
Sales Agents, Associates, &/or Representatives	20	23	3	4	7
All Other Sales Agents, Associates, &/or Representatives	4	4	0	0	0
TOTAL ALL OCCUPATIONS	853	1,002	149	79	228

Occupations that have been added to the "All" or "All Other" categories or collapsed into major occupational classes are as follows:

PROFESSIONAL WORKERS

- All Other Engineers
  - Civil Engineers

- All Other Professional Workers
  - Teachers, Vocational Education Or Training
  - Television Camera Operators
  - Purchasing Agents &/or Buyers
  - Accountants & Auditors
  - Broadcast News Analysts
  - Writers &/or Editors
  - Film Editors
  - Reporters & Correspondents
  - Technical Directors
  - Travel Agents

TECHNICAL WORKERS

- All Other Engineering Technicians
  - Broadcast Technicians

SERVICE WORKERS

- All Other Services Workers
  - Food Service Workers

MAINTENANCE & PRODUCTION WORKERS

- All Other Mechanics & Repairers
  - Diesel Mechanics

- All Other Skilled Craft Workers
  - Carpenters
  - Central Office Repairers
  - Machinists
  - Maintenance Repairers, General Utility
  - Plumbers &/or Pipefitters
  - Substation Operators
  - Trouble Shooters, Power Line

- All Other Operatives & Semiskilled Workers
  - Truck Drivers, Light
  - Crane, Derrick, & Hoist Operators
  - Delivery & Route Workers
  - Industrial Truck Operators
  - Pipelayers
  - Taxi Drivers
  - Watershed Tenders
  - Water Treatment Plant Operators
  - Surveyor Helpers
  - Truck Driver Helpers
  - Ambulance Drivers &/or Attendants

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

YUMA COUNTY (Continued)

MAINTENANCE & PRODUCTION WORKERS (Cont'd.)

- All Other Laborers & Unskilled Workers
  - Ground Workers, Utilities
  - Refuse Collectors

CLERICAL WORKERS

- All Other Office Machine Operators
  - Computer Operators

- All Other Office Clerical Workers
  - Accounting Clerks
  - Cashiers
  - Receptionists
  - Switchboard Operators/Receptionists
  - Ticket Agents

- All Other Plant Clerical Workers
  - Shipping Packers
  - Dispatchers, Airplane

SALES WORKERS

- All Other Sales Workers
  - Crating & Moving Estimators

METHODOLOGY

Limitations of the Data

The projection methods do not account for cyclical, seasonal, and such external factors as sudden and large establishment openings or closings. The methodology also assumes that the labor market areas are self-contained and generally devoid of significant levels of commuting and migration from one district to another for employment.

The occupational data in this publication only refer to employees who earned a wage or salary. Self-employed and unpaid family workers are not represented in the statistics.

Sample Selection and Response Rate

Occupational estimates for the Transportation, Communication, and Public Utilities Industry were developed from a survey of employers throughout the state. Employers who were asked to participate in the survey were selected from a master file of firms doing business in Arizona, using standardized sampling techniques. Establishments selected as part of the sample were those that employed four to 99 employees. All establishments having 100 or more employees were surveyed. The entire sample was composed of 718 firms with a usable response rate of 94.6 percent.

Employment Projections

Transportation, communications, and public utilities employment was projected using regression analysis and was adjusted to reflect recent industry developments. The 1983 occupational employment was calculated by applying adjusted staffing pattern ratios (as determined by the survey) to the industry projections. The adjustments to the ratio reflect national trends of evolving occupational distribution.[1]

Job Openings

The difference between 1979 and 1983 employment for each occupation represents expected job openings due to growth. Job openings due to separations were calculated by interpolating 1970 and 1985 separation rates for each occupation2 and applying them to the occupational employment projections. Total job openings is the sum of openings due to growth and separations.

---

[1] "Tomorrow's Manpower Needs," Vol. IV, BLS, Feb. 1971, pp. 99-104

[2] "Tomorrow's Manpower Needs," Supplement No. 4, BLS, 1974, pp. 11-16.

LABOR MARKET INFORMATION PUBLICATIONS
OCCUPATIONAL EMPLOYMENT STATISTICS
BOX 6123, SITE CODE 920B
PHOENIX, ARIZONA 85005

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
EMPLOYMENT SECURITY MAIL
LAB 449

FIRST CLASS MAIL

CONGRESSIONAL INF. SERV. INC. 1
7101 WISCONSIN AVE.
WASHINGTON, DC 20014

In cooperation with the Bureau of Labor Statistics, U.S. Department of Labor. Preparation of this document was financed in part through the Comprehensive Employment and Training Act (P. L. 93-203), Governor's Special Grant, from the U.S. Department of Labor.